

GenCore version 5.1.6
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OK nucleic - nucleic search, using sw model
Run on: September 10, 2003, 22:54:36; Search time 8032 Seconds
(without alignments)
8551.701 Million cell updates/sec
Title: US-10-017-084A-522
Perfect score: 1679
Sequence: 1 gttgtgtcttcagcaaac.....ataaaagagcaaaaaaa 1679
Scoring table: IDENTITY_NUC
Gapop 10.0, Capext 1.0
Searched: 2888711 seqs, 2045481386 residues
Total number of hits satisfying chosen parameters: 5777422
Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: GenEmbl:
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34: em_htg_pln:
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37: em_htg_vrt:
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39: em_hgo_hum:
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41: em_hgo_other:

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB	ID	Description
1	1679	100.0	1679	6	AX358872	Sequence
2	1679	100.0	1679	6	AX362365	Sequence
3	1679	100.0	1679	6	AX403748	Sequence
4	1679	100.0	1679	6	AX454470	Sequence
5	1679	100.0	1679	6	AX464242	Sequence
6	1679	100.0	1679	6	AX490948	Sequence
7	1432.8	85.3	1839	6	AX665342	Sequence
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9	996.8	59.4	2040	10	RNU16845	Rattus norv
10	976.4	58.2	1615	10	BC023307	Mus muscu
11	910.6	54.2	1410	10	AF282980	Mus muscu
12	910.4	54.2	1068	6	AX665344	Sequence
13	874.4	52.1	1104	6	AX665345	Sequence
14	856	51.0	1125	9	BC050716	Sequence
15	851.8	50.7	1140	6	AX665348	Sequence
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17	641.8	38.2	1257	5	GCCEP01	Gallus ga
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ALIGNMENTS

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DEFINITION	AX358872				
ACCESSION	AX358872				
VERSION	AX358872.1	GI:18675337			
KEYWORDS					
SOURCE	Homo sapiens (human)				
ORGANISM	Homo sapiens				
REFERENCE	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;				
AUTHORS	Mammalia; Euthera; Primates; Catarrhini; Homidae; Homo.				
	1 Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A.,				
	Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Smith, V.J., Stephan, J.P.,				
	Watanabe, C.K. and Wood, W.I.				

TITLE Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL Patent: WO 0193983-A 125 13-DEC-2001; Genentech Inc. (US)

FEATURES Location/Qualifiers

source 1..1679

/organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

BASE COUNT 498 a 432 c 419 g 330 t

ORIGIN

Query Match 100.0%; Score 1679; DB 6; Length 1679;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 2

AX362365

LOCUS Sequence 125 from Patent WO0208288

DEFINITION

AX362365

ACCESSION

AX362365.1 GI:18694640

VERSION

AX362365.1

KEYWORDS

1

SOURCE

Homo sapiens (human)

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1

AUTHORS

Baker,K.P., Desnoyers,L., Gerritsen,M.E., Goddard,A., Godowski,P.J., Grimaldi,J.C., Gurney,A.L., Smith,V., Stephan,J.P., Watanabe,C.K. and Wood,W.I.

TITLE

Secreted and transmembrane polypeptides and nucleic acids encoding the same

JOURNAL Patent: WO 0208288-A 125 31-JAN-2002;
Genentech, Inc. (US)

FEATURES
Source
1. 1679
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

BASE COUNT 498 a 432 c 419 g 330 t

Query Match 100.0%; Score 1679; DB 6; Length 1679;
Best local Similarity 100.0%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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LOCUS
DEFINITION
Sequence 103 from Patent WO0077037.
ACCESSION
AX403748.
VERSION
AX403748.1
KEYWORDS
GI:21437184
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1
AUTHORS
Ashkenazi, A., Baker, K., Botstein, D., Desnovers, L., Eaton, D. L.,
Ferrara, N., Fong, S., Gao, W. Q., Gerber, H., Gerritsen, M. E.,
Goddard, A., Godowski, P., Gurney, A., Kijavina, I. J., Mather, J.,
Napier, M., Pan, J., Paoni, N., Roy, M., Tamas, D., Watanabe, C.,
Williams, P. M., Wood, W. I. and Zhang, Z.
TITLE
Secreted and transmembrane polypeptides and nucleic acids encoding
the same

JOURNAL Patent: WO 0077037-A 103 21-DEC-2000;
Genentech Inc. (US)
FEATURES Location/Qualifiers
1. 1679
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"
BASE COUNT 498 a 432 c 419 g 330 t
ORIGIN

Query Match 100.0%; Score 1679; DB 6; Length 1679;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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ACCESSION AX454470
VERSION AX454470.1 GI:21713859
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens
ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE 1
AUTHORS Baker, K.P., Ferrara, N., Gerber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Marsters, S.A., Pan, J., Paoni, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I. and Ye W.
TITLE Compositions and methods for the diagnosis and treatment of disorders involving angiogenesis
JOURNAL Patent: WO 0208284-A 55 31-JAN-2002;

Genentech, Inc. (US); Baker, Kevin P. (US); Ferrara, Napoleone (US); Gerber, Hanspeter (US); Gerritsen, Mary E. (US); Goddard, Audrey (US); Godowski, Paul J. (US); Gurney, Austin L. (US); Hillan, Kenneth J. (US); Marsters, Scott A. (US); Pan, James (US); Paoni, Nicholas F. (US); Stephan, Jean-Philippe F. (US); Watanabe, Colin K. (US); Williams, P. Mickey (US); Wood, William I. (US)

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AX464242
LOCUS AX464242
DEFINITION Sequence 375 from Patent WO0140466.
ACCESSION AX464242
VERSION AX464242.1
KEYWORDS GI:21899137
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

1 Baker, K.P., Beresini, M., Deforge, L., Desnoyers, L., Filvaroff, E., Gao, W.Q., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L.,

Sherwood, S., Smith, V., Stewart, T.A., Tumas, D., Watanabe, C.K.,
Wood, W.L., and Zhang, Z.
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JOURNAL Patent: WO 0140466-A 375 07-JUN-2001;

Genentech Inc. (US)

FEATURES Location/Qualifiers

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/mol_type="genomic DNA"

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BASE COUNT 498 a 432 c 419 g 330 t

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Query Match 100.0% Score 1679; DB 6; Length 1679;

Best Local Similarity 100.0%; Pred. No. 0;

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AX490948

LOCUS

DEFINITION

AX490948

VERSION

AX490948.1

KEYWORDS

SOURCE

ORGANISM

Homo sapiens

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

REFERENCE

AUTHORS

AX490948 1679 bp DNA linear PAT 16-AUG-2002
Sequence 55 from Patent WO0200690.

AX490948

AX490948.1

GI:22323811

Homo sapiens (human)

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;

Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

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Baker, K. P., Ferrara, N., Gerber, H., Gritsen, M. E., Goddard, A.,

Godowski, P. J., Gurney, A. L., Hillen, K. J., Marsters, S. A., Pan, J.,

Paoni, N. F., Stephan, J. P., Watanabe, C. K., Williams, P. M., Wood, W. I.,

and Ye.W.
Compositions and methods for the diagnosis and treatment of
disorders involving angiogenesis
Patent: WO 0200690-A 55 03-JAN-2002;
Genentech, Inc. (US)

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ACCESSION AX665342
VERSION AX665342.1 GI:29290464
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ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
REFERENCE
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AUTHORS Sellar, G.C. and Gabra, H.
TITLE Cancer.
JOURNAL Patent: WO 03002765-A 100 09-JAN-2003;
Cancer Research Technology Limited (GB)

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DEFINITION U16845
ACCESSION U16845
VERSION U16845.1 GI:755184
KEYWORDS Rattus norvegicus (Norway rat)
SOURCE Rattus norvegicus
ORGANISM Rattus norvegicus
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REFERENCE 1 (bases 1 to 2040)
AUTHORS Struyk, A.F., Canoll, P., Wolfgramm, J., Rosen, C.L., D'Eustachio, P.
and Salzer, J.L.
TITLE Cloning of neurotrophin defines a new subfamily of differentially
expressed neural cell adhesion molecules
JOURNAL J. Neurosci. 15 (3 Pt 2), 2141-2156 (1995)
MEDLINE 95198094
PUBMED 7891157
REFERENCE 2 (bases 1 to 2040)
AUTHORS Salzer, J.L.
TITLE Direct Submission
JOURNAL Submitted (02-NOV-1994) James L. Salzer, Cell Biology, NYU Medical
Center, 550 First Avenue, New York, NY 10016, USA
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DEFINITION      AF282980
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SOURCE      Mus musculus (house mouse)
ORGANISM      Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE      1 (bases 1 to 1410)
AUTHORS      Kim,T.H., Choi,S.C., Kim,J., Jeon,J.W., Kim,K.D. and Lee,S.H.
TITLE      Cloning and expression of mouse neurotrophin gene in the developing
nervous system
JOURNAL      Unpublished
REFERENCE      2 (bases 1 to 1410)
AUTHORS      Kim,T.H., Choi,S.C., Kim,J., Jeon,J.W., Kim,K.D. and Lee,S.H.
TITLE      Direct Submission
JOURNAL      Submitted (27-JUN-2000) Graduate School of Biotechnology, Korea
University, 1,5-ka Anam-dong Sungbuk-ku, Seoul 136-701, Korea
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CDS

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Seller,G.C. and Gabra,H.
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VERSION	AX665348.1	GI:29290467	
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REFERENCE	1	Sellar, G.C. and Gabra, H.	
AUTHORS	Patent: WO 03002765-A 106 09 -JAN-2003;		
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GenCore version 5.1.6
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Database : Listing first 45 summaries

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4	720.2	42.9	1083	BM809227	BM809227 AGENCOURT

RESULT 1
AK045973
LOCUS
DEFINITION

ACCESSION
VERSION
KEYWORDS
SOURCE
ORGANISM

REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED

AK045973 1808 bp mRNA linear HTC 05-DEC-2002
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full-length enriched library, clone:B230328N06 product:NEURITRIMIN
PRECURSOR (GP65) homolog [Rattus norvegicus], full insert sequence.
AK045973 1 | GI:263377738
HTC; CAP trapper.
Mus musculus (house mouse)
Mus musculus
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
1
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
11042159

ALIGNMENTS

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REFERENCE AUTHORS	3	Shibata, K., Itoh, M., Alizawa, K., Nagaoka, S., Sasaki, N., Carninci, P., Konno, H., Akiyama, J., Nishi, K., Kitsuana, T., Tashiro, H., Itoh, M., Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Harada, A., Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K., Fujiwaki, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watahiki, M., Itoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsuura, S., Kawai, J., Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
TITLE		Riken integrated sequence analysis (RISA) system - 384-format sequencing pipeline with 384 multicapillary sequencer
JOURNAL		Genome Res. 10 (11), 1757-1771 (2000)
PUBLISHED		20030913
REFERENCE AUTHORS	4	Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y., Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S., Alizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I., Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R., Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T., Futschmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H., Kuehl, P., Lewis, S., Matsuo, Y., Nikaido, I., Pesole, G., Quackenbush, J., Schriml, L. M., Staubli, F., Suzuki, R., Tomita, M., Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H., Baldarelli, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N., Carninci, P., de Bonaldo, M. F., Brownstein, M. J., Bult, C., Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D., Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P., Marchionni, L., Washima, J., Mazzarelli, J., Mombaerts, P., Nordone, P., Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H., Sato, K., Schoenbach, C., Seya, T., Shibata, Y., Storch, K. F., Suzuki, H., Toyooka, K., Wang, K. H., Weitz, C., Whittaker, C., Wilming, L., Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawai, H., Kohtsuki, S. and Hayashizaki, Y.
TITLE		Functional annotation of a full-length mouse cDNA collection
JOURNAL		Nature 409 (6821), 585-590 (2001)
PUBLISHED		21085660
REFERENCE AUTHORS	5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase 1 & II Team.
TITLE		Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs
JOURNAL		Nature 420, 563-573 (2002)
REFERENCE AUTHORS	6	(bases 1 to 1808)
TITLE		Adachi, J., Alizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W., Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T., Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Katoh, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, H., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.
TITLE		Direct Submission
JOURNAL		Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN) Laboratory for Genome Exploration Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)
COMMENT		cDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN. Division of Experimental Animal Research in Riken contributed to prepare mouse tissues. Please visit our web site for further details. URL: http://genome.gsc.riken.go.jp/ URL: http://fantom.gsc.riken.go.jp/ URL: http://fantom.gsc.riken.go.jp/ Location/Qualifiers
FEATURES		

JOURNAL
REFERENCE
AUTHORS

Nature 420, 563-573 (2002)
6 (bases 1 to 1808)
Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, T., Kasukawa, T.,
Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
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Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
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Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
Takeda, Y., Tanaka, T., Tomaru, A., Toyota, T., Yasunishi, A.,
Yuramatsu, M., and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2003) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome
Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
Kanagawa 230-0045, Japan (E-mail: genome-res@sc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
Fax: 81-45-503-9216)
cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN.
Division of Experimental Animal Research in Riken contributed to
prepare mouse tissues.
Please visit our web site for further details.
URL: http://genome.gsc.riken.go.jp/
URL: http://fantom.gsc.riken.go.jp/
Location/Qualifiers

COMMENT

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FEATURES

source

CDS

BASE COUNT
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Query Match 66.78; Score 1119.4; DB 11; Length 1808;
Best Local Similarity 83.1%; Pred. No. 2.9e-148;
Matches 1417; Conservative 0; Mismatches 251; Indels 37; Gaps 11;
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 NIH-MGC <http://mgs.nci.nih.gov/>.
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: DCTD/DP
 cDNA Library Preparation: Rubin Laboratory
 DNA Sequencing by: The I.M.A.G.E. Consortium (LLNL)
 Clone Distribution by: Agencourt Bioscience Corporation
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FEATURES
 source

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 GGCACAG(G). Library constructed by Ling Hong in the
 Berkeley of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
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Db 454 TAATGAAGGAGAACAAATATAGCCTCACCTGATAGCACTGGTAGACAGAGCCTACGGT 513
Qy 634 TACTTGGAGACATCTCTCCCAAGCGGTGGCTTGTGAGTGAAGAGCAATCTTGA 693
Db 514 TACTTGGAGACATCTCTCCCAAGCGGTGGCTTGTGAGTGAAGAGCAATCTTGA 573
Qy 694 AATTGAGGATCACCCGGGAGCAGTCAGGAGTACAGAGTGCAGTGCCTCAATGACGT 753
Db 574 AATTGAGGATCACCCGGGAGCAGTCAGGAGTACAGAGTGCAGTGCCTCAATGACGT 633
Qy 754 GGCSCGCGCGGTGTGAGGAGAGTAAAGTCAACCGTGAATATCCACCATATCTTCA 813
Db 634 GGCSCGCGCGGTGTGAGGAGAGTAAAGTCAACCGTGAATATCCACCATATCTTCA 693
Qy 814 AGCCAAGGATACAGGTGT-CCCGTGGGACAAAGGGGACACTGCAG-TGTGAAGCTCA 871
Db 694 AGCCAAGGATACAGGTGTCCCGTGGGACAAAGGGGACACTGCAGTGTGAAGCTCA 753
Qy 872 GCAGTCCCTCAGCAG-AATTCAGTGTGACAGGATG-ACAAAGAGTGTAT--GAAG 927
Db 754 GCAGTCCCTCAGCAGAAATTCAGTGTGACAGGATGACCAAGAGTGTATTTGAAGG 813
Qy 928 AAGAAGAGGAGTGAAGTGAAGAAACA 953
Db 814 AAAAAAGGAGTGAAGAGGGGAAAAA 839

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RESULT 7

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AL533026 1085 bp mRNA linear EST 23-MAY-2003
LOCUS AL533026 Homo sapiens ADULT BRAIN Homo sapiens cDNA clone
DEFINITION CS0DN005YD20 5-PRIME, mRNA sequence.
ACCESSION AL533026
VERSION AL533026.2 GI:31070858
KEYWORDS EST.
SOURCE Homo sapiens (human)

```

ORGANISM

```

Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.

```

REFERENCE

```

1. (bases 1 to 1085)
Li W.B., Gruber C., Jessee J. and Polayes D.
Full-length cDNA libraries and normalization
Unpublished
On Feb.13. 2001 this sequence version replaced gi:12796519.

```

Contact: Genoscope National de Sequençage

Bp 191 91006 EVRY cedex - France

Email: segre@genoscope.cns.fr, Web : www.genoscope.cns.fr

Library was constructed by Life Technologies, a division of Invitrogen. This sequence belongs to sequence cluster 6387.f For more information about this cluster, see

<http://www.genoscope.cns.fr/cgi-bin/cluster.cgi?seq=CS0DN005DB10QPL&cluster=6387.f>. Contact :

Feng Liang Email : liang@lifetech.com URL :

<http://fulllength.invitrogen.com/InvitrogenCorporation1600>

Faraday Avenue Genoscope sequence ID : CS0DN005DB10QPL.

Location/Qualifiers

1. 1085

/organism="Homo sapiens"

/mol_type="mRNA"

/db_xref="taxon:9606"

/clone="CS0DN005YD20"

/tissue_type="ADULT BRAIN"

/dev_stage="adult"

/clone_lib="Homo sapiens ADULT BRAIN"

/notes="Organ: Brain; Vector: pcMVSPORT_6; 1st strand cDNA

was primed with a NotI-oligo(dT) primer. Five prime end

enriched, double-strand cDNA was digested with Not I and

cloned into the Not I and EcoRV sites of the pcMVSPORT 6

vector. Library was not normalized."

318 a 261 c 263 g 234 t 9 others

BASE COUNT

ORIGIN

RESULT 8

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BI551784 732 bp mRNA linear EST 05-SEP-2001
LOCUS BI551784
DEFINITION 603197479F1 NIH_MGC_95 Homo sapiens cDNA clone IMAGE:5277115 5',

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Query Match 38.4%; Score 645; DB 9; Length 1085;
Best Local Similarity 86.8%; Pred. No. 1.6e-81;
Matches 806; Conservative 1; Mismatches 1; Indels 121; Gaps 4;
QY 531 AAGTATCTCCCAAAATCTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATA 590
DB 160 AAGTATCTCCCAAAATCTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATA 219
QY 591 TTAGCTCACCCTGTCATAGCACTGGTAGACAGAGCCCTACGGTTTACTTTGAGAGACATCT 650
DB 220 TTAGCTCACCCTGTCATAGCACTGGTAGACAGAGCCCTACGGTTTACTTTGAGAGACATCT 279
QY 651 CTCCCAAGCGGTGGCTTTGTGAGTGAAGAGCAATCTTGGAAATTCAGGCGATCACCC 710
DB 280 CTCCCAAGCGGTGGCTTTGTGAGTGAAGAGCAATCTTGGAAATTCAGGCGATCACCC 339
QY 711 GGGAGCAGTCAGGCGCTAGAGTGCAGTGCCTCCCAATGAGTGGCGCGCGCGGTGTAC 770
DB 340 GGGAGCAGTCAGGCGCTAGAGTGCAGTGCCTCCCAATGAGTGGCGCGCGCGGTGTAC 399
QY 771 GGGAGTAAAGTCAACCTGACCTATCTTCCACCATATCTTTCAGAGAGCCAGGGTACAGGTG 830
DB 400 GGGAGTAAAGTCAACCTGACCTATCTTCCACCATATCTTTCAGAGAGCCAGGGTACAGGTG 459
QY 831 TCCCGTGGGACAAAAGGGGACACTGCAGTGTGAAGCCCTCAGCAGTCCCTCAGCAGAAAT 890
DB 460 TCCCGTGGGACAAAAGGGGACACTGCAGTGTGAAGCCCTCAGCAGTCCCTCAGCAGAAAT 519
QY 891 TCCAGTGGTACAAAGGATGACAAAA----- 914
DB 520 TCCAGTGGTACAAAGGATGACAAAAAGAGCTGAAATCTCATTTCACAGTTTGGTTATGATGGG 579
QY 915 ----- 914
DB 580 AAAGCTTCTCCTCCCATGTGGGACGAATGGTGTCAAAAAGCGCCAGTGGATCAATCAGCCT 639
QY 915 -----GACTGATTGAAGGAAAGAAAGGGGTGAAGTGAAGAAC 952
DB 640 GACTTGTCTCGAGAAATCTCCCGACTGATTGAGGAAAGGGGTGAAGTGAAGAAC 699
QY 953 AGACCTTCTCTCAAAACATCTTCTTCAATGCTCTGACATGACTGAGTGGGACTAC 1012
DB 700 AGACCTTCTCTCAAAACATCTTCTTCAATGCTCTGACATGACTGAGTGGGACTAC 759
QY 1013 ACTTGGTGGCTTCCCAACAGCTGGGCGCACCAATGCCACATCATCTATTGTTGCTCA 1072
DB 760 ACTTGGTGGCTTCCCAACAGCTGGGCGCACCAATGCCACATCATCTATTGTTGCTCA 819
QY 1073 GGGCGCGTCAAGGAGTGAAGCAAGCGCAGCTCGAGAGGGGAGGCTGGTGGTGGCTG 1132
DB 820 GGGCGCGTCAAGGAGTGAAGCAAGCGCAGCTCGAGAGGGGAGGCTGGTGGTGGCTG 879
QY 1133 CTTCTCTCTGGTCTTCACTCTCTCAAAATTTTGTGAGTGGTGGTGGTGGTGGTGGTGG 1192
DB 880 CTTCTCTCTGGTCTTCACTCTCTCAAAATTTTGTGAGTGGTGGTGGTGGTGGTGGTGG 938
QY 1193 GAAAGCTGCGCCCGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1252
DB 939 GAAAGCTGCGCCCGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 997
QY 1253 ATCAGATATATACAAATAGAAAGAACACAGCCTGATGGCAGAGAAATTCAGGG 1312
DB 998 ATCAGATATATACAAATAGAAAGAACACAGCCTGATGGCAGAGAAATTCAGGG 1057
QY 1313 AGGGGAACAAAGATACTTTGGGGGGGAAA 1341
DB 1058 AGGGG-ACAAAGAAATACTTTGGGGGGGAAA 1085

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mRNA sequence.
ACCESSION B1551784.1 GI:15439096
VERSION B1551784.1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIR-MGC http://mgc.nci.nih.gov/
1 (bases 1 to 732)
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Cloned distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
1 Plate: LLM11699 row: m column: 20
High quality sequence stop: 732.
Location/Qualifiers
1. 732
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:5277115"
/tissue_type="hippocampus"
/lab_host="DH10B"
/clone_lib="NIR-MGC_95"
note="Organ: brain; Vector: pBluescriptR (modified
pBluescript KS+); Site.1: BamHI; Site.2: SalI-XhoI (gtcag
); Oligo-dT primed using primer 5'-TTTTTTTTTTTNN-3',
size-selected for average insert size 2.5 kb and
normalized to ROT 5. This is a primary library enriched
for full-length clones and constructed using the
Cap-trapper method (Carninci, in preparation). Library
constructed by M. Brownstein (NIH/NHGRI, National
Institutes of Health) Note: this is a NIR-MGC Library."
BASE COUNT 218 a 191 c 172 g 150 t 1 others
ORIGIN
Query Match 38.3%; Score 643; DB 12; Length 732;
Best Local Similarity 99.4%; Pred. No. 3.6e-81;
Matches 676; Conservative 0; Mismatches 1; Indels 3; Gaps 3;
Qy 1 GTTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTGCACAGCTTGAGAGCAACAC 60
Db 54 GTTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTGCACAGCTTGAGAGCAACAC 113
Qy 61 AATCTATCAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAA 119
Db 114 AATCTATCAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 173
Qy 120 GAAGAAAAAATCATGAAGAACCATCCAGCAAAATGCACAAATTCATCTCTTGGGCA 179
Db 174 GAAGAAAAAATCATGAAGAACCATCCAGCAAAATGCACAAATTCATCTCTTGGGCA 233
Qy 180 TCCTCAGGGGTGCTGCTCTGTCTCTTCCAGAGTGCCTGCGCAGCGGAGATG 239
Db 234 TCCTCAGGGGTGCTGCTCTGTCTCTTCCAGAGTGCCTGCGCAGCGGAGATG 293
Qy 240 CCACCTTCCCAAAAGCTATGGACAACTGACGTCGCGCAGGGGAGAGCGCCACCTCA 299
Db 294 CCACCTTCCCAAAAGCTATGGACAACTGACGTCGCGCAGGGGAGAGCGCCACCTCA 353
Qy 300 GGTGCATATTGACAAACCGGTTCACCGGGTGGCTTGGCTTAACCGCAGCACCATCTCT 359
Db 354 GGTGCATATTGACAAACCGGTTCACCGGGTGGCTTGGCTTAACCGCAGCACCATCTCT 413

RESULT. 9
BE798585 1039 bp mRNA linear EST 20-SEP-2000
LOCUS 601581610F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3935955 5'
DEFINITION mRNA sequence.
ACCESSION BE798585
VERSION BE798585.1 GI:10219783
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
NIR-MGC http://mgc.nci.nih.gov/
1 (bases 1 to 1039)
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-r@mail.nih.gov
Tissue Procurement: DCTD/DPF
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
Plate: LLM779 row: d column: 04
High quality sequence stop: 849.
Location/Qualifiers
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/db_xref="taxon:9606"
/clone="IMAGE:3935955"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/lab_host="NIH_MGC_7"
note="Organ: lung; Vector: pONB7; Site.1: XhoI; Site.2:
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adapter: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using 2AP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```


1996. Denatured RNA was size fractionated on a 1% agarose gel. First strand cDNA synthesis was primed with oligo-dT primer containing a Not I site. Double strand cDNA was size selected according to mRNA size fractionation ligated with EcoR I adaptor, digested with NotI and then cloned directionally into pX-Asc vector. The library tag sequence located between the Not I site and the polyA tail is GCAACTGAAT. This library was created for the University of Iowa Brain Anatomy Project (BMAP): "Gene Discovery in the Developing Mouse Nervous System", supported by National Institute of Mental Health (NIMH), Hemin Chin, Ph.D., Program coordinator."

BASE COUNT	197 a	204 c	206 g	156 t	2 others
ORIGIN					
Query Match	36.9%	Score 619.6;	DB 14;	Length 765;	
Best Local Similarity	91.0%;	Pred. No. 6.8e-78;			
Matches 658;	Conservative	0;	Mismatches 65;	Indels 0;	Gaps 0;
OY	148	GCACAAATGACAAATTTCTCTTTGGSCAATCTTCACGGGCTGGCTGCTGCTCT	207		
DB	1	GGCAAAATGACAAATTTCTCTCTGTTGGSCAATCTTCACGGGCTGGCTGCTGCT	60		
OY	208	CTTCCAAGGAGTGCCTGCGGAGGAGATGCCACCTTCCCAAAAGCTATGGACAACGT	267		
DB	61	CTTCCAAGGAGTGCCTGCGGAGGAGATGCCACCTTCCCAAAAGCTATGGACAACGT	120		
OY	268	GACGGTCCGGCAGGGGAGAGCCACCTCAGGTGACATTTGACACCGGGTCCACCG	327		
DB	121	GACGGTCCGGCAGGGGAGAGCCACCTCAGGTGACATTTGACACCGGGTCCACCG	180		
OY	328	GTGGCTGCTTAACCGGAGGAGATCCCTCTATGCTGGCAATGACAGTGGCTGGA	387		
DB	181	GTGGCTGCTTAACCGGAGGAGATCCCTCTATGCTGGCAATGACAGTGGCTGGA	240		
OY	388	TCTCGCTGCTCTCTGAGCAACACCCACCTGACATGACATGACATGACATGACAT	447		
DB	241	TCTCGCTGCTCTCTGAGCAACACCCACCTGACATGACATGACATGACATGACAT	300		
OY	448	GGATGTATGACGAGGGCCCTTACACCTGCTGGTGCACAGACACCCCAAGAC	507		
DB	301	GGATGTATGACGAGGGCCCTTACACCTGCTGGTGCACAGACACCCCAAGAC	360		
OY	508	CTCTAGGTCCACCTATGTCGAGTATCTCCCAAAATTTGATAGATTTCTCAGATAT	567		
DB	361	CTCCAGGTCCACCTATGTCGAGTATCTCCCAAAATTTGATAGATTTCTCAGATAT	420		
OY	568	CTCCATTATGAAGGAAACAAATATTAGCTCACCCTGATAGCAATGATAGCAGGCC	627		
DB	421	CTCCATTATGAAGGAAACAAATATTAGCTCACCCTGATAGCAATGATAGCAGGCC	480		
OY	628	TACGGTTACTTGGAGACACATCTTCCCAAGCGTGGCTTTGTCAGTGAAGCAGATA	687		
DB	481	TACAGTACCTGGAGACATATTCTCCCAAGCGTGGCTTTGTCAGTGAAGTATGTA	540		
OY	688	CTTGAATATTGAGGATACCGGAGGAGTACGAGGAGTACGAGTACGAGTACGAG	747		
DB	541	CTTGAATATTGAGGATACCGGAGGAGTACGAGGAGTACGAGTACGAGTACGAG	600		
OY	748	TGACGTGGCGGCGGCTGGTACGAGAGTAAAGGTACCGTGAATATTCACCATCAT	807		
DB	601	CGACGTGGCGGCGGCTGGTACGAGAGTAAAGGTACCGTGAATATTCACCATCAT	660		
OY	808	TTCAGAAGCCCAAGGTTACAGGTGTCCTGGGACAAAGGGGACACTGCTGTAAGC	867		
DB	661	CTCAGAAGCTAAGGACACANGTGTCTCCGCTGGGACAAAGGGGACACTGCTGTAAGC	720		
OY	868	CTC 870			
DB	721	TTC 723			

RESULT 13

BM679797/c
LOCUS
DEFINITION
UI-E-EJ0-ain-k-01-0-UI sl UI-E-EJ0 Homo sapiens cDNA clone
UI-E-EJ0-ain-k-01-0-UI 3', mRNA sequence.
ACCESSION
BM679797
VERSION
BM679797.1
KEYWORDS
EST, GI:18989693
SOURCE
Homo sapiens (human)
ORGANISM
Homo sapiens
REFERENCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
AUTHORS
1 (bases 1 to 737)
TITLE
Normalization and subtraction: two approaches to facilitate gene
discovery
JOURNAL
Genome Res. 6 (9), 791-806 (1996)
MEDLINE
97044477
PUBMED
8889548
COMMENT
Contact: Soares, MB
Coordinated Laboratory for Computational Genomics
University of Iowa
375 Newton Road, 4156 MEBRF, Iowa City, IA 52242, USA
Tel: 319 335 8250
Fax: 319 335 9565
Email: bento-soares@uiowa.edu
Tissue Procurement: Dr. Gregg Hageman
cDNA Library preparation: Dr. M. Bento Soares, University of Iowa
cDNA Library Arrayed by: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Researchers may obtain clones from Research
Genetics (www.resgen.com)
Seq primer: M13 Forward
POLYA=yes
Location/Qualifiers
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/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-E-EJ0-ain-k-01-0-UI"
/tissue_type="fetal eyes, lens, eye anterior segment,
optic nerve, retina, Retina foveal and Macular, RPE and
Choroid"
/dev_stage="fetal and adult"
/lab_host="DH10B (Life Technologies) (T1, phage resistant)"
/clone_lib="UI-E-EJ0"
/note="Organ: eye; Vector: pT73-Pac (Pharmacia) with a
modified polylinker; Site_1: EcoR I; Site_2: Not I;
UI-E-EJ0 is a subtracted cDNA library constructed
according to Bonaldo, Lennon and Soares, Genome Research,
6:791-806, 1996. First strand cDNA synthesis was primed
with an oligo-dT primer containing a Not I site. Double
stranded cDNA was ligated to an EcoR I adaptor, digested
with Not I, and cloned directionally into pT73-Pac
vector. The oligonucleotide used to prime the synthesis of
first-strand cDNA contains a library tag sequence that is
located between the Not I site and the (dT)18 tail. The
sequence tags for this library are: fetal eyes, AGATCAGA
; lens, CGATAGCGA; eye anterior segment, ATGCCCAT;
optic nerve, CATTAGATG; retina, CCGCG; Retina foveal and
Macular, GTCC; RPE and Choroid, ACCCTA. This library was
created for the program, Gene Discovery in the Visual
System, supported by National Eye Institute (NEI).
TAG_LIB=UI-E-EJ0
TAG_TISSUE=human-fetal eyes
TAG_SEQ=AGATCAGA"
144 a 179 c 193 g 221 t
BASE COUNT
ORIGIN
Query Match 36.4%; Score 611; DB 12; Length 737;
Best Local Similarity 94.4%; Pred. No. 1.1e-76;
Matches 690; Conservative 0; Mismatches 5; Indels 36; Gaps 4;
OY 983 AATGCTCTCTGACATGACTATGGGAACTACACTTGGCTGGCTCCCAAGCTGGGCCAC 1042

GenCore version 5.1.6
Copyright (c) 1993 - 2003 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: September 10, 2003, 22:48:16 : Search time 570 Seconds
(without alignments)
7951.503 Million cell updates/sec

Title: US-10-017-084A-522
Perfect score: 1679
Sequence: 1 gttgttccttcagcaaac.....ataaaagagacaaataaaaaa 1679

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 1.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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23:	/SIDSI/gcgdata/geneseq/geneseq-embl/NA2001B.DAT:*
24:	/SIDSI/gcgdata/geneseq/geneseq-embl/NA2002.DAT:*
25:	/SIDSI/gcgdata/geneseq/geneseq-embl/NA2003.DAT:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1679	100.0	1679	20	AAZ34324 Human PRO337 nucle
2	1679	100.0	1679	21	AAZ34324 Human PRO337 nucle
3	1679	100.0	1679	22	AAZ34324 Human PRO337 nucle
4	1679	100.0	1679	22	AAZ34324 Human PRO337 nucle
5	1679	100.0	1679	24	ABL95588 Nucleotide sequenc
6	1679	100.0	1679	24	ABL95588 Nucleotide sequenc
7	1679	100.0	1679	24	ABL95588 Nucleotide sequenc
8	1679	100.0	1679	25	AC60326 Human PRO337 CDNA

9	1679	100.0	1679	25	ACA03790 CDNA encoding huma
10	1679	100.0	1679	25	ACA04211 Human CDNA encodin
11	1679	100.0	1679	25	ACA04516 Novel human secret
12	1679	100.0	1679	25	ACA04996 Novel human secret
13	1679	100.0	1679	25	ABX89328 DNA encoding novel
14	1679	100.0	1679	25	ABX92696 CDNA encoding huma
15	1661.4	99.0	1693	21	AAZ47893 Human protease enco
16	1643.4	97.9	2012	21	AAZ47893 Human protease enco
17	1601.4	95.4	1603	21	AAZ47893 Human protease enco
18	1509.8	89.9	1873	24	ABK49272 Human Kruppel asso
19	1457	86.8	1878	22	ABK49272 Human Kruppel asso
20	1432.8	85.3	1839	22	ABK49272 Human Kruppel asso
21	1315	78.3	1690	22	ABK49272 Human Kruppel asso
22	1032	61.5	1032	21	AAZ47893 Human protease enco
23	939	55.9	939	21	AAZ47893 Human protease enco
24	803.8	47.9	832	21	AAZ47893 Human protease enco
25	540.8	32.2	3069	14	AAZ47893 Human protease enco
26	523	31.1	2179	14	AAZ47893 Human protease enco
27	523	31.1	12337	14	AAZ47893 Human protease enco
28	503	30.0	503	20	AAZ47893 Human protease enco
29	503	30.0	503	21	AAZ47893 Human protease enco
30	503	30.0	503	25	ABX92696 CDNA encoding huma
31	491.2	29.3	537	22	AAZ47893 Human protease enco
32	441.2	26.3	452	22	AAZ47893 Human protease enco
33	396	23.6	484	23	AAZ47893 Human protease enco
34	343.8	20.5	1411	24	AAZ47893 Human protease enco
35	343	20.4	1238	17	AAZ47893 Human protease enco
36	341.6	20.3	1195	25	ABX63560 Human CDNA #560 di
37	340.6	20.3	924	17	AAZ47893 Human protease enco
38	340.6	20.3	977	17	AAZ47893 Human protease enco
39	340.6	20.3	1014	17	AAZ47893 Human protease enco
40	338.6	20.2	861	17	AAZ47893 Human protease enco
41	338.6	20.2	912	17	AAZ47893 Human protease enco
42	337.4	20.1	945	17	AAZ47893 Human protease enco
43	337.4	20.1	1757	25	ABZ76264 Human GENSET CDNA
44	337	20.1	930	17	AAZ47893 Human protease enco
45	333.8	19.9	861	17	AAZ47893 Human protease enco

ALIGNMENTS

RESULT 1

AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

XX AAZ34324 standard; CDNA: 1679 BP.

QY 541 CAAAATTTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
 Db 541 CAAAATTTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
 QY 601 CTGCATAGCACTGCTAGACAGAGCCTACGGTTACTTTGGAGACACATCTCTCCAAAGC 660
 Db 601 CTGCATAGCACTGCTAGACAGAGCCTACGGTTACTTTGGAGACACATCTCTCCAAAGC 660
 QY 661 GGTTCGCTTTGCTAGTGAAGCAATCTTTGGAATTCAGGGCATACACCGGAGCAGTC 720
 Db 661 GGTTCGCTTTGCTAGTGAAGCAATCTTTGGAATTCAGGGCATACACCGGAGCAGTC 720
 QY 721 AGGGGACTACGAGTGCCTCCATGACGTGGCCGCGCGCTGGTACGGAGAGTAAA 780
 Db 721 AGGGGACTACGAGTGCCTCCATGACGTGGCCGCGCGCTGGTACGGAGAGTAAA 780
 QY 781 GGTCCCGTGAATATCCACCATACATTTTCAAGAGCCAAAGGTTACAGGTCTCCCGTGGG 840
 Db 781 GGTCCCGTGAATATCCACCATACATTTTCAAGAGCCAAAGGTTACAGGTCTCCCGTGGG 840
 QY 841 AAAAAAGGGGACACTGCAGTGTGAAGCCTCAGCAGTTCCTCCAGCAGATTCACGTGTA 900
 Db 841 AAAAAAGGGGACACTGCAGTGTGAAGCCTCAGCAGTTCCTCCAGCAGATTCACGTGTA 900
 QY 901 CAAGGATGACAAAGACTGATTGAAGGAAGAAAGGGTGAAGTGAAGCAAGCACTTT 960
 Db 901 CAAGGATGACAAAGACTGATTGAAGGAAGAAAGGGTGAAGTGAAGCAAGCACTTT 960
 QY 961 CCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1020
 Db 961 CCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1020
 QY 1021 GGCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1080
 Db 1021 GGCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1080
 QY 1081 CAGGAGGTGACACAGCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
 Db 1081 CAGGAGGTGACACAGCAGCTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1140
 QY 1141 GGCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1200
 Db 1141 GGCTCTCAAACTCATCTCTCTCAATGCTCTCAATGCTCTCAATGCTCTCAATGCTCT 1200
 QY 1201 GCGGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAT 1260
 Db 1201 GCGGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAT 1260
 QY 1261 TATACAAATGAAATTTAGAGAAACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
 Db 1261 TATACAAATGAAATTTAGAGAAACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
 QY 1321 AAGAATCTTTGGGGGAAAGAGTTTAAAGAAATTTGAAATTTGAAATTTGAAATTTGAA 1380
 Db 1321 AAGAATCTTTGGGGGAAAGAGTTTAAAGAAATTTGAAATTTGAAATTTGAAATTTGAA 1380
 QY 1381 TTTAGTCTAATGAGATTTCTTTTCCCAAGGGAAGCAACACAGCAGCAGCAGCAGCAG 1440
 Db 1381 TTTAGTCTAATGAGATTTCTTTTCCCAAGGGAAGCAACACAGCAGCAGCAGCAGCAG 1440
 QY 1441 CCACCTGCAAGTGCATCGTCAACCTCTTTGGTGCCAGTGTGGGCAAGGCTTCAGCCTC 1500
 Db 1441 CCACCTGCAAGTGCATCGTCAACCTCTTTGGTGCCAGTGTGGGCAAGGCTTCAGCCTC 1500
 QY 1501 TCTGCCACAGAGTGCCTCCACAGTGGAGCAATTTCTGGAGCTGGCCATCCCAATTCATCA 1560
 Db 1501 TCTGCCACAGAGTGCCTCCACAGTGGAGCAATTTCTGGAGCTGGCCATCCCAATTCATCA 1560
 QY 1561 GTCCATAGAGAGCAAGATGAGACCTTCGCGCCCAAGCGTGGCGTGGGCGACCTTTG 1620
 Db 1561 GTCCATAGAGAGCAAGATGAGACCTTCGCGCCCAAGCGTGGCGTGGGCGACCTTTG 1620

QY 1621 GTAGACTGTCCACCACGGGCTGTGTGTGTGAACGCTGAATTAAGAGCAAAAAA 1679
 Db 1621 GTAGACTGTCCACCACGGGCTGTGTGTGTGAACGCTGAATTAAGAGCAAAAAA 1679
 RESULT 2
 AAC78590
 ID AAC78590 standard; cDNA; 1679 BP.
 XX AAC78590;
 AC AC
 XX XX
 DT 08-FEB-2001 (first entry)
 XX Human PRO337 nucleotide sequence SEQ ID NO:522.
 DE Human; secreted protein; transmembrane protein; PRO; EST; cytosolic;
 KW expressed sequence tag; detection; cancer; ss.
 XX Homo sapiens.
 OS Homo sapiens.
 PN WO200053756-A2.
 XX 14-SEP-2000.
 XX 18-FEB-2000; 2000WO-US04341.
 XX 08-MAR-1999; 99WO-US05028.
 PR 12-MAR-1999; 99US-0123957.
 PR 29-MAR-1999; 99US-0126773.
 PR 21-APR-1999; 99US-0130232.
 PR 28-APR-1999; 99US-0131445.
 PR 14-MAY-1999; 99US-0134287.
 PR 23-JUN-1999; 99US-0141037.
 PR 26-JUL-1999; 99US-0145698.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 16-DEC-1999; 99WO-US28565.
 PR 30-DEC-1999; 99WO-US30095.
 PR 30-DEC-1999; 99WO-US31243.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 XX (GETH) GENENTECH INC.
 PA Ashkenazi AJ, Baker KP, Botstein D, Desnoyers L, Eaton DL;
 PI Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerfilsen ME;
 PI Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
 PI Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;
 PI Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI: 2000-611443/58.
 DR P-PSDB; A8444329.
 XX Novel PRO polypeptides and polynucleotides used in detection methods,
 PT to target bioactive molecules to specific cells, and to modulate
 PI cellular activities.
 XX Claim 2; Fig 221; 636pp; English.
 CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed
 CC sequence tag) sequences which encode secreted or transmembrane PRO
 CC polypeptides. The PRO polynucleotides and polypeptides have cytostatic
 CC activity. The polynucleotides and polypeptides can be used for detecting
 CC the presence of PRO polypeptides in samples, for linking bioactive
 CC molecules to cells and for modulating biological activities of cells,
 CC using the polypeptides for specific targeting. The polypeptide targeting
 CC can be used to kill the target cells, e.g. for the treatment of cancers.
 CC The polypeptide pairs provide specific targeting of bioactive molecules
 CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
 CC the isolation of the PRO polynucleotide sequences.

OY	241	CACCTTCCCAAGCTATGACACAGCTGAGCGTCCGCGAGGGGAGAGCGCCACCCCTCAG	300
Db	241	CACCTTCCCAAGCTATGACACAGCTGAGCGTCCGCGAGGGGAGAGCGCCACCCCTCAG	300
OY	301	GTGCACTATTGACAAACCGGTCACCGGGTGGCTTAAACCGCAGACCACTCTCTA	360
Db	301	GTGCACTATTGACAAACCGGTCACCGGGTGGCTTAAACCGCAGACCACTCTCTA	360
OY	361	TGCTGGGAATGACAAAGTGGTCCCTGGATCCTCGCGTGTCTCTGAGCAACACCCAAAC	420
Db	361	TGCTGGGAATGACAAAGTGGTCCCTGGATCCTCGCGTGTCTCTGAGCAACACCCAAAC	420
OY	421	GCAGTACAGCATCGAGATCCAGAACGTGGATGTATGACGAGGGCCCTTACACCTGCTC	480
Db	421	GCAGTACAGCATCGAGATCCAGAACGTGGATGTATGACGAGGGCCCTTACACCTGCTC	480
OY	481	GGTCAGACAGAACACCAAGACCTCTAGGCTCCACCTCATTTGTGCAAGTATCTCC	540
Db	481	GGTCAGACAGAACACCAAGACCTCTAGGCTCCACCTCATTTGTGCAAGTATCTCC	540
OY	541	CAAAATTTGAGAGATTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC	600
Db	541	CAAAATTTGAGAGATTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC	600
OY	601	CTCATAGCAACTGTGACACAGAGCTACGGTACTTTGGAGACACATCTCTCCCAAGC	660
Db	601	CTCATAGCAACTGTGACACAGAGCTACGGTACTTTGGAGACACATCTCTCCCAAGC	660
OY	661	GTTGGCTTTGTGAGTGAACAGCAATACCTGGAATTCAGGGCATCACCGGGAGCAGTC	720
Db	661	GTTGGCTTTGTGAGTGAACAGCAATACCTGGAATTCAGGGCATCACCGGGAGCAGTC	720
OY	721	AGGGGACTACGAGTGCCTCCAAATGACGTGCGCGCCCGTGGTACGGAGAGTAAA	780
Db	721	AGGGGACTACGAGTGCCTCCAAATGACGTGCGCGCCCGTGGTACGGAGAGTAAA	780
OY	781	GGTCACCGTGAACACTACCACTACATTTTCAAGACCAAGGTTACAGGTGTCCTCCGTTGG	840
Db	781	GGTCACCGTGAACACTACCACTACATTTTCAAGACCAAGGTTACAGGTGTCCTCCGTTGG	840
OY	841	ACAAAAGGGGACACTGTCAGTGTGAAGCCCTCAGCAGTCCCTTCACAGCAATTCAGTGGTA	900
Db	841	ACAAAAGGGGACACTGTCAGTGTGAAGCCCTCAGCAGTCCCTTCACAGCAATTCAGTGGTA	900
OY	901	CAAGGATGACAAAAGACTGATTGAAGGAAAGAAAGGGGTGAAAGTGGAAACAGACCTTT	960
Db	901	CAAGGATGACAAAAGACTGATTGAAGGAAAGAAAGGGGTGAAAGTGGAAACAGACCTTT	960
OY	961	CTCTCAAACTCATCTCTTCAATGTCTGACATGACTATGGGAACCTACACTTGGT	1020
Db	961	CTCTCAAACTCATCTCTTCAATGTCTGACATGACTATGGGAACCTACACTTGGT	1020
OY	1021	GGCTCCCAACAGCTGGGCCACACCAATGCCAGCATCATCTATTTGGTCCAGGCGCT	1080
Db	1021	GGCTCCCAACAGCTGGGCCACACCAATGCCAGCATCATCTATTTGGTCCAGGCGCT	1080
OY	1081	CAGGAGGTGACCAACCGGACGTCGAGGAGCGCAGCTGTCTGCTGCTCTCTCTCT	1140
Db	1081	CAGGAGGTGACCAACCGGACGTCGAGGAGCGCAGCTGTCTGCTGCTCTCTCTCTCT	1140
OY	1141	GGTCTGACCTGCTCTCAAAATTTTGTATGTAGTGGCCTTCCCAACCGGGAAGGCT	1200
Db	1141	GGTCTGACCTGCTCTCTCAAAATTTTGTATGTAGTGGCCTTCCCAACCGGGAAGGCT	1200
OY	1201	GCGGCCACCAACCAACACAGCAATGGCAACACCGCAGCAACCAATCAGATA	1260
Db	1201	GCGGCCACCAACCAACACAGCAATGGCAACACCGCAGCAACCAATCAGATA	1260
OY	1261	TATACAAATGAAATAGAGAAACACAGCTCTATGGAGAGAAATTTGAGGGAGGGAAC	1320
Db	1261	TATACAAATGAAATAGAGAAACACAGCTCTATGGAGAGAAATTTGAGGGAGGGAAC	1320
OY	1321	AAGATATCTTTGGGGGAAAAGAGTTTAAAGAAAGAAATTTGAAATTCCTTCAGATA	1380
Db	1321	AAGATATCTTTGGGGGAAAAGAGTTTAAAGAAAGAAATTTGAAATTCCTTCAGATA	1380
OY	1381	TTTAGGTACAATGAGATTTTCTTTTCCCAACGGGAAGAACACAGACACCCGGCTTGGG	1440
Db	1381	TTTAGGTACAATGAGATTTTCTTTTCCCAACGGGAAGAACACAGACACCCGGCTTGGG	1440
OY	1441	CCCACTGCAAGCTGCATCTGCAACCTCTTTTGGTCCAGTGTGGGCAAGGGCTCAGCCTC	1500
Db	1441	CCCACTGCAAGCTGCATCTGCAACCTCTTTTGGTCCAGTGTGGGCAAGGGCTCAGCCTC	1500
OY	1501	TCGTGCCACAGAGTGGCCCCAGCTGGAACATTTCTGGAGCTGGCCATCCCAATTCATCA	1560
Db	1501	TCGTGCCACAGAGTGGCCCCAGCTGGAACATTTCTGGAGCTGGCCATCCCAATTCATCA	1560
OY	1561	GTCCATAGAGACGAACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGCGGCACCTTG	1620
Db	1561	GTCCATAGAGACGAACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGCGGCACCTTG	1620
OY	1621	GTAGACTGTGCGCCACCGCGGTGTCTGTGAAACGTGAATAAAGAGCAAAAAA	1679
Db	1621	GTAGACTGTGCGCCACCGCGGTGTCTGTGAAACGTGAATAAAGAGCAAAAAA	1679
RESULT 5			
ABL95588			
ID	ABL95588 standard; cDNA; 1679 BP.		
XX	ABL95588;		
DT	19-JUL-2002 (first entry)		
XX	Human angiogenesis related cDNA PRO337 SEQ ID NO: 55.		
XX	Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;		
XX	atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;		
XX	cardiant; cytoslatic; antiangiogenic; hypotensive; vulnerary;		
XX	antiarteriosclerotic; gene; ss.		
OS	Homo sapiens.		
XX	WO200208284-A2.		
PD	31-JAN-2002.		
XX	09-JUL-2001; 2001WO-US21735.		
XX	20-JUL-2000; 2000US-219556P.		
XX	25-JUL-2000; 2000US-220624P.		
XX	28-JUL-2000; 2000US-220664P.		
XX	02-AUG-2000; 2000WO-US20710.		
XX	17-AUG-2000; 2000US-222695P.		
XX	23-AUG-2000; 2000US-0643657.		
XX	24-AUG-2000; 2000WO-US23322.		
XX	07-SEP-2000; 2000US-230978P.		
XX	18-SEP-2000; 2000US-0664610.		
XX	24-OCT-2000; 2000US-0665350.		
XX	08-NOV-2000; 2000US-242922P.		
XX	08-NOV-2000; 2000US-0709238.		
XX	10-NOV-2000; 2000WO-US30952.		
XX	01-DEC-2000; 2000WO-US32678.		
XX	20-DEC-2000; 2000US-0747259.		
XX	22-JAN-2001; 2000WO-US34956.		
XX	28-FEB-2001; 2001US-0796498.		
XX	01-MAR-2001; 2001WO-US06520.		
XX	09-MAR-2001; 2001WO-US06566.		
XX	14-MAR-2001; 2001US-0802706.		
XX	22-MAR-2001; 2001US-0808689.		
XX	22-MAR-2001; 2001US-0816744.		

PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001US-0866026.
 PR 25-MAY-2001; 2001US-0866034.
 PR 30-MAY-2001; 2001MO-US17092.
 PR 30-MAY-2001; 2001US-0870374.
 PR 30-MAY-2001; 2001MO-US17443.
 PR 01-JUN-2001; 2001MO-US17800.
 PR 20-JUN-2001; 2001MO-US19692.
 PR 28-JUN-2001; 2001MO-US00000.
 XX
 PA (GETH) GENENTECH INC.
 PA (BAKE/) BAKER K P.
 PA (FERR/) FERRARA N.
 PA (GERB/) GERBER H.
 PA (GERR/) GERRITSEN M E.
 PA (GODO/) GODDARD A.
 PA (GODO/) GODOWSKI P J.
 PA (GURN/) GURNEY A L.
 PA (HILL/) HILLAN K J.
 PA (MARS/) MARSTERS S A.
 PA (PANJ/) PAN J.
 PA (PAON/) PAONI N F.
 PA (STEP/) STEPHAN J F.
 PA (WATA/) WATANABE C K.
 PA (WILL/) WILLIAMS P M.
 PA (WOOD/) WOOD W I.
 XX
 PI Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF, Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 PI
 DR WPI: 2002-171999/72.
 DR P-PSDB: ABB95450.
 XX
 PI One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal -
 PI
 XX Claim 1; Fig 55; 567pp; English.
 XX
 CC The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial restenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The present sequence is a coding sequence of the invention.
 CC
 XX Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
 XX
 Query Match 100.0%; Score 1679; DB 24; Length 1679;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTTGTGTCCTCAGCAAAACAGTGGATTTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 DB 1 GTTGTGTCCTCAGCAAAACAGTGGATTTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 QY 61 AATCTATCAGGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
 DB 61 AATCTATCAGGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
 QY 121 AAGAAAAAATCATGAAACCATCCAGCAAAATGACAAATTTCTATCTCTTGGGCAAT 180
 DB 121 AAGAAAAAATCATGAAACCATCCAGCAAAATGACAAATTTCTATCTCTTGGGCAAT 180
 QY 181 CTTTCAGGGGCTGGCTGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240
 DB 181 CTTTCAGGGGCTGGCTGCTGTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 240

QY 241 CACCTTCCCCAAAGCTATGTGACAAAGTGTGACGGTCCGCGAGGGGAGAGCGCCACCTTCAG 300
 DB 241 CACCTTCCCCAAAGCTATGTGACAAAGTGTGACGGTCCGCGAGGGGAGAGCGCCACCTTCAG 300
 QY 301 GTGCACTATTGACAAACGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
 DB 301 GTGCACTATTGACAAACGGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 360
 QY 361 TGTGGGAATGACAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
 DB 361 TGTGGGAATGACAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
 QY 421 GCAGTACAGCATCGAGATCCAGAGTGTGATGATGAGAGGGCCCTTACACCTGCTC 480
 DB 421 GCAGTACAGCATCGAGATCCAGAGTGTGATGATGAGAGGGCCCTTACACCTGCTC 480
 QY 481 GGTGACAGACAGCAACCCAAAGACCTCTAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
 DB 481 GGTGACAGACAGCAACCCAAAGACCTCTAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 540
 QY 541 CAAAATTCGTAGAGATTTCTTCAGATATCTCCATTAATGAAGGAACAATATTAGCCTCAC 600
 DB 541 CAAAATTCGTAGAGATTTCTTCAGATATCTCCATTAATGAAGGAACAATATTAGCCTCAC 600
 QY 601 CTGCATAGCACTGCTGAGACAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
 DB 601 CTGCATAGCACTGCTGAGACAGAGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 660
 QY 661 GGTGGCTTTGTGAGTGTGAGACAGATATCTGGAATTCAGGGATCATCCCGGAGCAGTCT 720
 DB 661 GGTGGCTTTGTGAGTGTGAGACAGATATCTGGAATTCAGGGATCATCCCGGAGCAGTCT 720
 QY 721 AGGGACTACAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 780
 DB 721 AGGGACTACAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGTGTGAGT 780
 QY 781 GGTACCTGTAACATCTCCACATACATTTTCAGAAAGCAAGGGTACAGGTGCTGCTGCTGCTGCTGCT 840
 DB 781 GGTACCTGTAACATCTCCACATACATTTTCAGAAAGCAAGGGTACAGGTGCTGCTGCTGCTGCTGCT 840
 QY 841 ACAAAAGGGGACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
 DB 841 ACAAAAGGGGACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 900
 QY 901 CAAGGATGACAAAAGACTGATTTGAAGAAAGAAAGGGGTGAAAGTGGAAAAACAGACCTTT 960
 DB 901 CAAGGATGACAAAAGACTGATTTGAAGAAAGAAAGGGGTGAAAGTGGAAAAACAGACCTTT 960
 QY 961 CCTCTCAAACTCATCTTCTTCAATGCTCTCTGAACATGACTATGGGAACCTACACTTGGCT 1020
 DB 961 CCTCTCAAACTCATCTTCTTCAATGCTCTCTGAACATGACTATGGGAACCTACACTTGGCT 1020
 QY 1021 GGCCTCCAAAGCTGGGCGCACCAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
 DB 1021 GGCCTCCAAAGCTGGGCGCACCAACCAATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1080
 QY 1081 CAGCAGGTGAGCAACGGCAGCTGCGAGGAGGGCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
 DB 1081 CAGCAGGTGAGCAACGGCAGCTGCGAGGAGGGCAGGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1140
 QY 1141 GGTCTGCACCTGCTTCTCAATTTTGTGATGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
 DB 1141 GGTCTGCACCTGCTTCTCAATTTTGTGATGTGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1200
 QY 1201 GCGGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 1260
 DB 1201 GCGGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 1260
 QY 1261 TATCAAAATGAAATTTAGAAAGAAACAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 DB 1261 TATCAAAATGAAATTTAGAAAGAAACAGCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1320
 QY 1321 AAGAATATCTTGGGGGAAAGAGATTTTAAAGAAAGAAATTTGAAATTTGCCTTGCAGATA 1380

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DB 1321 AAAGTAATCTTTGGGGGAAAGAGTTTAAAAAGAAATGAAATTCCTTGCAGATA 1380
QY 1381 TTTAGTACATGAGTTTCTTTTCCCAACGGGGAAGACACAGCACACCGGGCTTGA 1440
DB 1381 TTTAGTACATGAGTTTCTTTTCCCAACGGGGAAGACACAGCACACCGGGCTTGA 1440
QY 1441 CCCTGGAAGCTGCAATGCGTGAACCTCTTTGGTCCAGTGTGGCAAGGCTCAGCTC 1500
DB 1441 CCCTGGAAGCTGCAATGCGTGAACCTCTTTGGTCCAGTGTGGCAAGGCTCAGCTC 1500
QY 1501 TCTGCCACAGAGTGGCCCGACGTCGACATCTCTTGGTCCAGTGTGGCAAGGCTCAGCTC 1560
DB 1501 TCTGCCACAGAGTGGCCCGACGTCGACATCTCTTGGTCCAGTGTGGCAAGGCTCAGCTC 1560
QY 1561 GTCCATAGACGACAGATGAGACCTTCCGGCCCAAGCGTGGCGCTCGGGGCACTTG 1620
DB 1561 GTCCATAGACGACAGATGAGACCTTCCGGCCCAAGCGTGGCGCTCGGGGCACTTG 1620
QY 1621 GTAGCTGTGCGCCACGCGCTGTGTGTGAACGTGAATAAAGAGCAAAAAA 1679
DB 1621 GTAGCTGTGCGCCACGCGCTGTGTGTGAACGTGAATAAAGAGCAAAAAA 1679

RESULT 6
ID ABL88099 standard; cDNA; 1679 BP.
XX ABL88099;
XX 16-MAY-2002 (first entry)
XX Human PRO337 cDNA sequence SEQ ID NO:55.
XX Human; angiogenesis; cardiant; cytostatic; antiangiogenic; hypotensive;
XX vulnary; antiarteriosclerotic; PRO agonist; PRO antagonist; trauma;
XX angiogenic disorder; cardiac hypertrophy; atherosclerosis; hypertension;
XX age-related macular degeneration; arterial restenosis; angina;
XX rheumatoid arthritis; myocardial infarction; thrombophlebitis;
XX lymphangitis; tumour angiogenesis; breast carcinoma; liver carcinoma;
XX wound healing; chromosome mapping; gene mapping; gene; ss.
XX OS Homo sapiens.
XX PN WO200200690-A2.
XX PD 03-JAN-2002.
XX PF 20-JUN-2001; 2001WO-US19692.
XX 23-JUN-2000; 2000US-213637P.
XX 20-JUL-2000; 2000US-219556P.
XX 25-JUL-2000; 2000US-220624P.
XX 25-JUL-2000; 2000US-220664P.
XX 28-JUL-2000; 2000WO-US20710.
XX 02-AUG-2000; 2000US-222695P.
XX 17-AUG-2000; 2000US-0643657.
XX 23-AUG-2000; 2000WO-US23522.
XX 24-AUG-2000; 2000WO-US23328.
XX 07-SEP-2000; 2000US-230978P.
XX 18-SEP-2000; 2000US-0664610.
XX 18-SEP-2000; 2000US-0665350.
XX 24-OCT-2000; 2000US-242922P.
XX 08-NOV-2000; 2000US-0709238.
XX 08-NOV-2000; 2000WO-US30952.
XX 10-NOV-2000; 2000WO-US30873.
XX 01-DEC-2000; 2000WO-US32678.
XX 20-DEC-2000; 2000US-0747259.
XX 20-DEC-2000; 2000WO-US34956.
XX 22-JAN-2001; 2001US-0767609.
XX 28-FEB-2001; 2001US-0796498.
XX 28-FEB-2001; 2001WO-US06520.

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PR 01-MAR-2001; 2001WO-US06666.
PR 09-MAR-2001; 2001US-0802706.
PR 14-MAR-2001; 2001US-0808689.
PR 22-MAR-2001; 2001US-0816744.
PR 05-APR-2001; 2001US-0828366.
PR 10-MAY-2001; 2001US-0854208.
PR 25-MAY-2001; 2001US-0854280.
PR 25-MAY-2001; 2001US-0865028.
PR 25-MAY-2001; 2001US-0865034.
PR 30-MAY-2001; 2001WO-US17092.
PR 30-MAY-2001; 2001US-0870374.
PR 01-JUN-2001; 2001WO-US17443.
PR 01-JUN-2001; 2001WO-US17800.
XX (GETH) GENENTECH INC.
XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A; Paoni NF;
XX Godowski PU, Gurney AL, Hillan KJ, Warsters SA, Pan J,
XX Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX WPI; 2002-090516/12.
XX DR P-PSDB; ABB8484.
XX One hundred and eighty seven nucleic acids encoding PRO polypeptides,
XX useful in diagnosis and treatment of cardiovascular (e.g. myocardial
XX infarction), endothelial or angiogenic disorders in a mammal.
XX Claim 2; Fig 55; 565pp; English.
XX ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
XX ABB85003. The PRO proteins and polynucleotides have cardiant, cytostatic,
XX antiangiogenic, hypotensive, vulnary and antiarteriosclerotic
XX activities, and can be used in gene therapy. The PRO polynucleotides,
XX proteins, agonists and antagonists are useful for treating or diagnosing
XX a cardiovascular, endothelial or angiogenic disorder in a mammal,
XX e.g. cardiac hypertrophy, trauma, cancer, age-related macular
XX degeneration, atherosclerosis, hypertension, arterial restenosis,
XX rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,
XX lymphangitis, tumour angiogenesis (such as breast carcinoma and liver
XX carcinoma) and wound healing. The PRO polynucleotides have applications
XX in molecular biology, including use as hybridisation probes, and in
XX chromosome and gene mapping. ABL88259 to ABL88267 represent primers and
XX probes used in the exemplification of the present invention.
XX SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
Query Match 100.0%; Score 1679; DB 24; Length 1679;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTCACAAAGCTTGAGACCAAC 60
DB 1 GTTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTCACAAAGCTTGAGACCAAC 60
QY 61 AATCTATCAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
DB 61 AATCTATCAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
QY 121 AAGAAAAAATATGAAACCAATCCAGCCAAATGACAAATTTCTTCTTGGCAAT 180
DB 121 AAGAAAAAATATGAAACCAATCCAGCCAAATGACAAATTTCTTCTTGGCAAT 180
QY 181 CTTTCACGGGGCTGGCTCTCTGTCTCTTCCAGAGAGTGCCCGTCCGCGGAGATGC 240
DB 181 CTTTCACGGGGCTGGCTCTCTGTCTCTTCCAGAGAGTGCCCGTCCGCGGAGATGC 240
QY 241 CACCTTCCCAAGAGTATGCAACGTCGCGTCCGAGGGGAGAGCGCCACCTCAG 300
DB 241 CACCTTCCCAAGAGTATGCAACGTCGCGTCCGAGGGGAGAGCGCCACCTCAG 300
QY 301 GTGCACATTTGACAAAGCGGTCCACCCGGGTGGCTTAACCGCAGCAGCAATCTCTA 360
DB 301 GTGCACATTTGACAAAGCGGTCCACCCGGGTGGCTTAACCGCAGCAGCAATCTCTA 360

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PT tumour or liver tumour -
 XX Claim 2; Figure 125; 359pp; English.
 CC The invention relates to one hundred and twenty two nucleic acids
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
 CC agonists and antagonists are useful for treating a PRO related disorder.
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression, in pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. ABK33536-ABK33657 represent human
 CC PRO protein coding sequences of the invention.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Query Match 100.0%; Score 1679; DB 24; Length 1679;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 DB 1 GTGTGTCCTTCAGCAAAACAGTGGATTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 QY 61 AATCTATCAGGAAGAAAGAAAGAAACCGAACCTCGACAAAGAAAGAAAGAAAG 120
 DB 61 AATCTATCAGGAAGAAAGAAAGAAACCGAACCTCGACAAAGAAAGAAAGAAAG 120
 QY 121 AAGAAAAAATCATGAAACCATCCAGCAAAATGACAAATCTATCTCTTGGGCAAT 180
 DB 121 AAGAAAAAATCATGAAACCATCCAGCAAAATGACAAATCTATCTCTTGGGCAAT 180
 QY 181 CTTTCAGGGGCTGGCTGCTGTCTCTTCCAAAGAGTGGCCGCGAGCGGAGATGC 240
 DB 181 CTTTCAGGGGCTGGCTGCTGTCTCTTCCAAAGAGTGGCCGCGAGCGGAGATGC 240
 QY 241 CACCTTCCCAAGCTATGGACACGTGACGGTCCGCGAGGAGAGCGCCACCTCAG 300
 DB 241 CACCTTCCCAAGCTATGGACACGTGACGGTCCGCGAGGAGAGCGCCACCTCAG 300
 QY 301 GTGCATATTGACACCGGTCACCGGGTGGCTTAAACCGAGCAGCACCCTCTCA 360
 DB 301 GTGCATATTGACACCGGTCACCGGGTGGCTTAAACCGAGCAGCACCCTCTCA 360
 QY 361 TGCTGGGATGACAGTGGCTGCTGATCTCGGTGGCTTCTGAGCAACACCCAAAC 420
 DB 361 TGCTGGGATGACAGTGGCTGCTGATCTCGGTGGCTTCTGAGCAACACCCAAAC 420
 QY 421 GCAGTACAGCATCGAGATCCAGAACGTGGATGTGTGACGAGGGCCCTTACACCTGCTC 480
 DB 421 GCAGTACAGCATCGAGATCCAGAACGTGGATGTGTGACGAGGGCCCTTACACCTGCTC 480
 QY 481 GGTGCAGACAGACACCCCAAGACCTCTAGGGTCCACCTATTGTGCAAGTATCTCC 540
 DB 481 GGTGCAGACAGACACCCCAAGACCTCTAGGGTCCACCTATTGTGCAAGTATCTCC 540
 QY 541 CAAATTTGAGAGATTCTTCAGATATCTCATTAATGAAGGAAACATATTAGCCTAC 600
 DB 541 CAAATTTGAGAGATTCTTCAGATATCTCATTAATGAAGGAAACATATTAGCCTAC 600
 QY 601 CTGCATAGCACTGGTAGACAGAGCTAGGTTACTTGGAGACACATCTCTCCCAAGC 660
 DB 601 CTGCATAGCACTGGTAGACAGAGCTAGGTTACTTGGAGACACATCTCTCCCAAGC 660
 QY 661 GGTGTGGCTTTGTGAGTGAAGAGAAATCTTGGAAATCTCAGGGCATACCCGGGAGCAGTC 720
 DB 661 GGTGTGGCTTTGTGAGTGAAGAGAAATCTTGGAAATCTCAGGGCATACCCGGGAGCAGTC 720

DB 661 GGTGTGGCTTTGTGAGTGAAGAGAAATCTTGGAAATCTCAGGGCATACCCGGGAGCAGTC 720
 QY 721 AGGGGATACAGTGCAGTGCCTCCCAATGAGTGGCCGCCGCCGCTGTGAGGAGAGTAAA 780
 DB 721 AGGGGATACAGTGCAGTGCCTCCCAATGAGTGGCCGCCGCCGCTGTGAGGAGAGTAAA 780
 QY 781 GGTACCGGTGAACATATCCACATACATTTTCAGAACCCAGGAGTGTCCCGTGGG 840
 DB 781 GGTACCGGTGAACATATCCACATACATTTTCAGAACCCAGGAGTGTCCCGTGGG 840
 QY 841 ACAAAAGGGGACACTGTCAGTGTGAAGCCCTCAGCAGTCCCTCAGCAGAAATTCACGTGTA 900
 DB 841 ACAAAAGGGGACACTGTCAGTGTGAAGCCCTCAGCAGTCCCTCAGCAGAAATTCACGTGTA 900
 QY 901 CAAGGATGACAAAAGACTGATTGAAGAAAGAAAGGGGTGAAAGTGTGAAACAGACCTTT 960
 DB 901 CAAGGATGACAAAAGACTGATTGAAGAAAGAAAGGGGTGAAAGTGTGAAACAGACCTTT 960
 QY 961 CCTCTCAAACTCATCTTCTCAATCTCTCTGAACATGACTATGGAACATACACTTGGT 1020
 DB 961 CCTCTCAAACTCATCTTCTCAATCTCTCTGAACATGACTATGGAACATACACTTGGT 1020
 QY 1021 GGCCTCCAAAGCTGGGCGCACACCACTTGAAGAAAGAAAGGGGTGAAAGTGTGAAAGGGCGT 1080
 DB 1021 GGCCTCCAAAGCTGGGCGCACACCACTTGAAGAAAGAAAGGGGTGAAAGTGTGAAAGGGCGT 1080
 QY 1081 CAGCAGGTGAGCAACCGCACGTCGAGGAGGCGAGGTGCGTCTGCTGCTCTTCTTCT 1140
 DB 1081 CAGCAGGTGAGCAACCGCACGTCGAGGAGGCGAGGTGCGTCTGCTGCTCTTCTTCT 1140
 QY 1141 GGTCTTGACCTGCTCTCAATTTTGTGTGAGTGGCAGTCTCCACCCCGGAAAGGCT 1200
 DB 1141 GGTCTTGACCTGCTCTCAATTTTGTGTGAGTGGCAGTCTCCACCCCGGAAAGGCT 1200
 QY 1201 GCGGCACACACACCAACACAGCAATGGCAACACGACGACGACCAACCAATCAGATA 1260
 DB 1201 GCGGCACACACACCAACACAGCAATGGCAACACGACGACGACCAACCAATCAGATA 1260
 QY 1261 TATACAAATGAAATTTAGAGAAACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAAAC 1320
 DB 1261 TATACAAATGAAATTTAGAGAAACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAAAC 1320
 QY 1321 AAGAAATCTTTGGGGGAAAGAGTTTAAAGAAAGAAATTTGAAATTTGCTTGCAGATA 1380
 DB 1321 AAGAAATCTTTGGGGGAAAGAGTTTAAAGAAAGAAATTTGAAATTTGCTTGCAGATA 1380
 QY 1381 TTTAGTACAAATGAGTTTCTTTCCCAAGGGGAAAGACACAGCAGCAGCCGCTTGA 1440
 DB 1381 TTTAGTACAAATGAGTTTCTTTCCCAAGGGGAAAGACACAGCAGCAGCCGCTTGA 1440
 QY 1441 CCCACTGCACTGCATCTGCAACCTCTTTGGTGGCAGTGTGGGAGGGGTGAGCCTC 1500
 DB 1441 CCCACTGCACTGCATCTGCAACCTCTTTGGTGGCAGTGTGGGAGGGGTGAGCCTC 1500
 QY 1501 TCTGCCACAGAGTGCCTCCACAGTGAACATTTCTGGAGCTGGCCATCCCAATCA 1560
 DB 1501 TCTGCCACAGAGTGCCTCCACAGTGAACATTTCTGGAGCTGGCCATCCCAATCA 1560
 QY 1561 GTCCATAGAGACGAAACAGATGAGCCTTTCCGGGCCCAAGGCTGCGGCTGCGGCACTTTG 1620
 DB 1561 GTCCATAGAGACGAAACAGATGAGCCTTTCCGGGCCCAAGGCTGCGGCTGCGGCACTTTG 1620
 QY 1621 GTAGACTGTGCCACCGGGCTGTGTGTGAAAGCTGAAATTAAGAGCAAAAAA 1679
 DB 1621 GTAGACTGTGCCACCGGGCTGTGTGTGAAAGCTGAAATTAAGAGCAAAAAA 1679

RESULT 8
 ID ACA60526 standard; cdna; 1679 BP.
 XX AC
 XX ACA60526;

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DT 11-JUN-2003 (first entry)
DE Novel human secreted and transmembrane protein PRO337 cDNA.
XX
XX Human; secreted and transmembrane polypeptide; PRO;
KW fibroblast growth factor receptor; PRO533; PRO301; PRO187; PRO337;
KW PRO1411; PRO10096; PRO246; PRO6307; PRO6003; FGFR-3; FGFR-4; FGFR-1;
KW FGFR-2; PRO6004; PRO356; PRO265; PRO351; bioactive molecule;
KW toxin; radiolabel; antibody; cell death; chromosome mapping;
KW gene mapping; transgenic animal; knockout animal; gene therapy;
KW tissue typing; gene; ss.
XX
OS Homo sapiens.
XX
XX US2002177165-A1.
XX
XX 28-NOV-2002.
XX
XX 01-FEB-2002; 2002US-0066500.
XX
XX 14-JUL-1998; 98WO-US14552.
XX 10-SEP-1998; 98WO-US14824.
XX 14-SEP-1998; 98WO-US19093.
XX 16-SEP-1998; 98WO-US19330.
XX 17-SEP-1998; 98WO-US19437.
XX 20-NOV-1998; 98WO-US24855.
XX 25-NOV-1998; 98WO-US25190.
XX 01-DEC-1998; 98WO-US25108.
XX 08-MAR-1999; 99WO-US05028.
XX 02-JUN-1999; 99WO-US12252.
XX 01-SEP-1999; 99WO-US20111.
XX 08-SEP-1999; 99WO-US20594.
XX 15-SEP-1999; 99WO-US21090.
XX 15-SEP-1999; 99WO-US21547.
XX 30-NOV-1999; 99WO-US28313.
XX 01-DEC-1999; 99WO-US28301.
XX 02-DEC-1999; 99WO-US28565.
XX 20-DEC-1999; 99WO-US30999.
XX 05-JAN-2000; 2000WO-US00219.
XX 18-FEB-2000; 2000WO-US04341.
XX 18-FEB-2000; 2000WO-US04342.
XX 22-FEB-2000; 2000WO-US04414.
XX 01-MAR-2000; 2000WO-US05601.
XX 02-MAR-2000; 2000WO-US05841.
XX 09-MAR-2000; 2000WO-US06471.
XX 20-MAR-2000; 2000WO-US07377.
XX 30-MAR-2000; 2000WO-US08439.
XX 15-MAY-2000; 2000WO-US13358.
XX 17-MAY-2000; 2000WO-US13705.
XX 22-MAY-2000; 2000WO-US14042.
XX 20-MAY-2000; 2000WO-US14941.
XX 02-JUN-2000; 2000WO-US15264.
XX 11-AUG-2000; 2000WO-US24031.
XX 23-AUG-2000; 2000WO-US23522.
XX 24-AUG-2000; 2000WO-US23528.
XX 01-DEC-2000; 2000WO-US32678.
XX 28-FEB-2001; 2001WO-US06520.
XX 30-MAY-2001; 2001WO-US17443.
XX 01-JUN-2001; 2001WO-US17800.
XX 20-JUN-2001; 2001WO-US19692.
XX 29-JUN-2001; 2001WO-US21066.
XX 09-JUL-2001; 2001WO-US21735.
XX 26-AUG-1997; 97US-056974P.
XX 17-SEP-1997; 97US-059115P.
XX 18-SEP-1997; 97US-059263P.
XX 19-SEP-1997; 97US-059588P.
XX 17-OCT-1997; 97US-06285P.
XX 24-OCT-1997; 97US-062816P.
XX 28-OCT-1997; 97US-063082P.
XX 27-OCT-1997; 97US-063329P.
XX 21-NOV-1997; 97US-063723P.
XX 25-NOV-1997; 97US-066364P.
XX 97US-066840P.

PR 16-DEC-1997; 97US-069694P.
PR 09-FEB-1998; 98US-074086P.
PR 09-FEB-1998; 98US-074092P.
PR 25-MAR-1998; 98US-079294P.
PR 08-APR-1998; 98US-081049P.
PR 10-AUG-1998; 98US-095998P.
PR 18-AUG-1998; 98US-097000P.
PR 09-SEP-1998; 98US-099601P.
PR 10-SEP-1998; 98US-099803P.
PR 10-SEP-1998; 98US-099811P.
PR 10-SEP-1998; 98US-099812P.
PR 17-SEP-1998; 98US-100858P.
PR 24-SEP-1998; 98US-101922P.
PR 28-OCT-1998; 98US-104032P.
PR 20-NOV-1998; 98US-109304P.
PR 23-MAR-1999; 99US-125778P.
PR 15-JUN-1999; 99US-139695P.
PR 20-JUL-1999; 99US-145070P.
PR 26-JUL-1999; 99US-145698P.
PR 17-AUG-1999; 99US-149396P.
PR 07-DEC-1999; 99US-169493P.
PR 15-NOV-2001; 2001US-0002795.
XX
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
XX Godowski PJ, Gurney AL, Kijavini IJ, Mather JP, Napier MA, Pan J;
XX Paoni NF, Roy MA, Stewart TA, Tumes D, Watanabe CK, Williams PM;
XX Wood WI, Zhang Z;
XX
XX WPI; 2003-328482/31.
XX
XX P-PSDS; ABU72061.
XX
XX Novel secreted and transmembrane polypeptide for modulating biological
XX activity of cell expressing the polypeptide, for identifying agonists
XX or antagonists of polypeptide, and as molecular weight markers
XX
XX Claim 2; Fig 51; 254pp; English.
XX
XX The invention describes an isolated, secreted and transmembrane
XX polypeptide (PP), termed PRO PP or fibroblast growth factor receptor PP
XX (I). (I) is useful for detecting PRO533, PRO301, PRO187, PRO337,
XX PRO1411, PRO10096, PRO246, PRO6307, PRO6003, fibroblast growth factor
XX receptor (FGFR)-3, FGFR-4, FGFR-1, FGFR-2, PRO6004, PRO4356, PRO2630,
XX PRO265 or PRO951 polypeptide and for linking a bioactive molecule to a
XX cell expressing the above polypeptides. The bioactive molecule, a toxin,
XX radiolabel or an antibody, causes cell death. PRO is useful in assays to
XX identify other proteins or molecules involved in binding interaction.
XX The polynucleotide (II) encoding (I) is useful in chromosome and gene
XX mapping, in generation of antisense RNA and DNA, for generating
XX transgenic animals or knockout animals which in turn are useful in the
XX development and screening of therapeutically useful reagents, to
XX construct hybridisation probes for mapping the gene which encodes the
XX PRO and for the genetic analysis of individuals with genetic disorders,
XX in gene therapy, for chromosome identification and as a chromosome
XX marker. (I) and (II) are useful for tissue typing. This sequence
XX encodes a novel human secreted and transmembrane PRO polypeptide.
XX
XX Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
XX
Query Match 100.0%; Score 1679; DB 25; Length 1679;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTTGTGCTCTTCAGCAAAACAGTGGATTAAATCTCTTCCTTGCACAACTTGAGCAACAC 60
DB 1 GTTGTGCTCTTCAGCAAAACAGTGGATTAAATCTCTTCCTTGCACAACTTGAGCAACAC 60
QY 61 ATCTATCATGAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
DB 61 ATCTATCATGAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120

```

QY 121 AAAAAAAAAAATCATGAAACATCCAGCCAAAAAATGCAAAATCTATCTCTGGGCAAT 180
DB 121 AAAAAAAAAAATCATGAAACATCCAGCCAAAAAATGCAAAATCTATCTCTGGGCAAT 180
QY 181 CTTACAGGGGCTGGCTGCTCTCTCTCTCTCAAGAGTGCCCGTGGCGAGCGAGATGC 240
DB 181 CTTACAGGGGCTGGCTGCTCTCTCTCTCTCAAGAGTGCCCGTGGCGAGCGAGATGC 240
QY 241 CACCTTCCCAAGCTATGGACAAGTGAGCGTCCGGCAGGGGAGAGCGCACCTCTCAG 300
DB 241 CACCTTCCCAAGCTATGGACAAGTGAGCGTCCGGCAGGGGAGAGCGCACCTCTCAG 300
QY 301 GTGCACTATTGACAACCGGGTCAACCGGGTGGCTGGCTAAACCGCAGCACCATCTCTA 360
DB 301 GTGCACTATTGACAACCGGGTCAACCGGGTGGCTGGCTAAACCGCAGCACCATCTCTA 360
QY 361 TGCTGGGAATGACAAGTGGTGGCTGGATCTCGCGTGGTCTCTTGAGCAACACCAAC 420
DB 361 TGCTGGGAATGACAAGTGGTGGCTGGATCTCGCGTGGTCTCTTGAGCAACACCAAC 420
QY 421 GCAGTCAGCATCGAGATCCAGACGTGGATCTGATGAGAGGCGCTTACACCTGCTC 480
DB 421 GCAGTCAGCATCGAGATCCAGACGTGGATCTGATGAGAGGCGCTTACACCTGCTC 480
QY 481 GGTGAGAGAGACCAACCCCAAGACCTCTAGGGTCCACCTCATTTGTCAGATATCTCC 540
DB 481 GGTGAGAGAGACCAACCCCAAGACCTCTAGGGTCCACCTCATTTGTCAGATATCTCC 540
QY 541 CAAATTTGATAGATTTCTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
DB 541 CAAATTTGATAGATTTCTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
QY 601 CTGCATAGCAACTGGTAGACAGAGCCCTACGGTTACTTTGGAGACACATCTCTCCCAAGC 660
DB 601 CTGCATAGCAACTGGTAGACAGAGCCCTACGGTTACTTTGGAGACACATCTCTCCCAAGC 660
QY 661 GGTGGGCTTTGTCAGTGAAGAGCAATCTTGGAAATTCAGGCGCATCACCGGGAGCGTC 720
DB 661 GGTGGGCTTTGTCAGTGAAGAGCAATCTTGGAAATTCAGGCGCATCACCGGGAGCGTC 720
QY 721 AGGGGACTACGAGTCAGTGGCTCCAATGACGTGGCGCGCCGCTGGTAGCGAGAGTAA 780
DB 721 AGGGGACTACGAGTCAGTGGCTCCAATGACGTGGCGCGCCGCTGGTAGCGAGAGTAA 780
QY 781 GGTCAACCTGAATATCCACCATATCTCAGAAAGCAAGGTACAGGTGTCCCGTGGG 840
DB 781 GGTCAACCTGAATATCCACCATATCTCAGAAAGCAAGGTACAGGTGTCCCGTGGG 840
QY 841 ACAAAAGGGGACACTGCAGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTA 900
DB 841 ACAAAAGGGGACACTGCAGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTA 900
QY 901 CAAGGATGACAAAGACTGATGAAGGAAGAGGGTGAAGTGAAGCAACAGACCTTT 960
DB 901 CAAGGATGACAAAGACTGATGAAGGAAGAGGGTGAAGTGAAGCAACAGACCTTT 960
QY 961 CCTCTCAAAACTCATCTTCTCAATGTCTGAACTGACTATGGGAACATCTTGGCT 1020
DB 961 CCTCTCAAAACTCATCTTCTCAATGTCTGAACTGACTATGGGAACATCTTGGCT 1020
QY 1021 GGCCTCCAAAGCTGGGCCACCAATGCGCAGCATCATGCTATTGTCGAGCGCGCT 1080
DB 1021 GGCCTCCAAAGCTGGGCCACCAATGCGCAGCATCATGCTATTGTCGAGCGCGCT 1080
QY 1081 CAGCGAGGTGAGCAACGGGCTCAGGAGGCGAGCTGCTGGTGTGCTCTTCT 1140
DB 1081 CAGCGAGGTGAGCAACGGGCTCAGGAGGCGAGCTGCTGGTGTGCTCTTCT 1140
QY 1141 GGTCTTCACCTCTCTCAATTTGATGTGAGTGCACCTTCCCGGGAAGGCT 1200
DB 1141 GGTCTTCACCTCTCTCAATTTGATGTGAGTGCACCTTCCCGGGAAGGCT 1200
QY 1201 GCCGCCACCAACCAACCAACACACAGCAATGGCAACACCGCAGCAACCAATCAGATA 1260

DB 1201 GCCGCCACCAACCAACCAACACAGCAATGGCAACACCGCAGCAACCAATCAGATA 1260
QY 1261 TATACAAATGAAATTTAGAAGAAACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
DB 1261 TATACAAATGAAATTTAGAAGAAACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
QY 1321 AAAGAATACTTTGGGGGAAAGAGTTTAAAAAAGAAATTTGAAAAATTTGCTTTGCAGATA 1380
DB 1321 AAAGAATACTTTGGGGGAAAGAGTTTAAAAAAGAAATTTGAAAAATTTGCTTTGCAGATA 1380
QY 1381 TTTAGTGTACATGAGATTTCTTTTCCCAACCGGGAACACACAGCACCCCGCTTGA 1440
DB 1381 TTTAGTGTACATGAGATTTCTTTTCCCAACCGGGAACACACAGCACCCCGCTTGA 1440
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DB 1501 TCTGCCACAGAGTCCCGCCACGTCGGAACATTTCTGGAGTGGCCATCCCAATTCATCA 1560
QY 1561 GTCCATAGAGAGCAACAGATGAGACCTTCCCGGCCAAGCGTGGCGTGGCGGCACTTTG 1620
DB 1561 GTCCATAGAGAGCAACAGATGAGACCTTCCCGGCCAAGCGTGGCGTGGCGGCACTTTG 1620
QY 1621 GTAGCTGTGCCACACCGGCTGTGTGTGAAACGTGAATTAAGAGCAAAAAA 1679
DB 1621 GTAGCTGTGCCACACCGGCTGTGTGTGAAACGTGAATTAAGAGCAAAAAA 1679

RESULT 9
ACAO3790
ID ACAO3790 standard; cDNA; 1679 BP.
XX ACAO3790;
XX AC
XX DT 23-MAY-2003 (first entry)
XX CDNA encoding human PRO polypeptide #188.
DE Human; PRO polypeptide; secreted and transmembrane protein;
KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
KW differentiation; chondrocyte; tumour; genetic disorder;
KW cytoskeletal; gene; ss.
XX OS Homo sapiens.
XX PN
XX PD US2003036180-A1.
XX PD 20-FEB-2003.
XX PF 09-MAY-2002; 2002US-0143114.
XX PR 31-MAR-1997; 97WO-US05230.
PR 12-JUN-1998; 98WO-US12456.
PR 14-JUL-1998; 98WO-US14552.
PR 28-AUG-1998; 98WO-US17888.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 14-SEP-1998; 98WO-US19094.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 29-OCT-1998; 98WO-US22992.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.


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Db 301 GTGCACTATTGACACACCGGTCACCCGGGTGGCTTAAACCGCAGACCACTATCTCTA 360
Qy 361 TGTGGGAATGACAAAGTGGTGCCTGGATCTCCGCTGGTCTTCTGAGCAACACCAAC 420
Db 361 TGTGGGAATGACAAAGTGGTGCCTGGATCTCCGCTGGTCTTCTGAGCAACACCAAC 420
Qy 421 GCAGTACAGATCGAGATCCAGAACGTTGATGTATGACAGAGGCGCTTACACCTGCTC 480
Db 421 GCAGTACAGATCGAGATCCAGAACGTTGATGTATGACAGAGGCGCTTACACCTGCTC 480
Qy 481 GGTCCAGACAGAACACCCCAAGACCTCTAGGGTCCACCTCATTTGTGCAAGTATCTCC 540
Db 481 GGTCCAGACAGAACACCCCAAGACCTCTAGGGTCCACCTCATTTGTGCAAGTATCTCC 540
Qy 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
Db 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCAC 600
Qy 601 CTGCATAGCAACTGGTGTAGACAGAGCCTACGTTTACTTTGGAGACACATCTCTCCAAAGC 660
Db 601 CTGCATAGCAACTGGTGTAGACAGAGCCTACGTTTACTTTGGAGACACATCTCTCCAAAGC 660
Qy 661 GTTTGGCTTTGTGAGTGAAGAGCAATACTTTGAAATTCAGGGCATCACCCGGGAGCAGTC 720
Db 661 GTTTGGCTTTGTGAGTGAAGAGCAATACTTTGAAATTCAGGGCATCACCCGGGAGCAGTC 720
Qy 721 AGGGACTAGGAGTGCAGTGCCTCAATGACGTGGCGGCGGCGCTGTGAGGAGATTA 780
Db 721 AGGGACTAGGAGTGCAGTGCCTCAATGACGTGGCGGCGGCGCTGTGAGGAGATTA 780
Qy 781 GGTACCGTGAATATCCACATACATTTTCAAGCAAGGATGACAGTGTCCCGTGG 840
Db 781 GGTACCGTGAATATCCACATACATTTTCAAGCAAGGATGACAGTGTCCCGTGG 840
Qy 841 ACAAAAGGACACTGCAAGTGTGAAGCCTCAGAGTCCCTCAGCAGATTCAGTGGTA 900
Db 841 ACAAAAGGACACTGCAAGTGTGAAGCCTCAGAGTCCCTCAGCAGATTCAGTGGTA 900
Qy 901 CAGGATGACAAAGACTGATTGAAGGAAAGAGGGGTGAAAGTGGAAACAGACCTTT 960
Db 901 CAGGATGACAAAGACTGATTGAAGGAAAGAGGGGTGAAAGTGGAAACAGACCTTT 960
Qy 961 CCTCTCAAACTCATCTTCTCAATGTCTGAACATGACTATGGGAACACTACACTTGC 1020
Db 961 CCTCTCAAACTCATCTTCTCAATGTCTGAACATGACTATGGGAACACTACACTTGC 1020
Qy 1021 GGCCTCCAAAGCTGGGCAACCAATGCCAGCATCATGCTATTGTCAGGCGCGCT 1080
Db 1021 GGCCTCCAAAGCTGGGCAACCAATGCCAGCATCATGCTATTGTCAGGCGCGCT 1080
Qy 1081 CAGCGAGTGTGAGCAAGGCGCAGTGTGAGGAGGCGAGGCTGCTGCTGCTCTTCT 1140
Db 1081 CAGCGAGTGTGAGCAAGGCGCAGTGTGAGGAGGCGAGGCTGCTGCTGCTCTTCT 1140
Qy 1141 GGTCTGCACTGCTCTCAATTTTGTATGAGTCCACTTCCCAACCGGGAAGGCT 1200
Db 1141 GGTCTGCACTGCTCTCAATTTTGTATGAGTCCACTTCCCAACCGGGAAGGCT 1200
Qy 1201 GCCGCCACCAACCAACCAACAGCAATGGCAACAGCAGCAAGCAACCAATCAGATA 1260
Db 1201 GCCGCCACCAACCAACCAACAGCAATGGCAACAGCAGCAAGCAACCAATCAGATA 1260
Qy 1261 TATCAAAATGAATTTAGAGAAACACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
Db 1261 TATCAAAATGAATTTAGAGAAACACACAGCCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
Qy 1321 AAAGAATACCTTTGGGGGAAAGAGTTTAAAAAGAAATTTGAAATTTGCTTGCAGATA 1380
Db 1321 AAAGAATACCTTTGGGGGAAAGAGTTTAAAAAGAAATTTGAAATTTGCTTGCAGATA 1380
Qy 1381 TTTAGGTACAAATGGAGTTTCTTTTCCCAACGGGAGAACACAGCAGCAGCCTTGA 1440
Db 1381 TTTAGGTACAAATGGAGTTTCTTTTCCCAACGGGAGAACACAGCAGCAGCCTTGA 1440
```

RESULT 10

ACA04211

ID ACA04211 standard; cDNA; 1679 BP.

XX ACA04211;

XX ACA04211;

XX ACA04211;

DT 27-MAY-2003 (first entry)

XX Human cDNA encoding a secreted/transmembrane protein, SEQ ID 375.

Human; ss; gene; secreted protein; transmembrane protein; PRO;
inflammatory disease; organ failure; atherosclerosis; cardiac injury;
infertility; birth defects; premature aging; AIDS; biosensor;
acquired immunodeficiency syndrome; cancer; diabetic complication;
bioreactor; tumour

XX Homo sapiens.

XX US2003032155-A1.

XX 13-FEB-2003.

XX 03-MAY-2002; 2002US-0137865.

XX 31-MAR-1997; 97WO-US05230.

XX 12-JUN-1998; 98WO-US12456.

XX 14-JUL-1998; 98WO-US14552.

XX 28-AUG-1998; 98WO-US17888.

XX 10-SEP-1998; 98WO-US18824.

XX 14-SEP-1998; 98WO-US19093.

XX 14-SEP-1998; 98WO-US19094.

XX 14-SEP-1998; 98WO-US19177.

XX 16-SEP-1998; 98WO-US19330.

XX 17-SEP-1998; 98WO-US19437.

XX 07-OCT-1998; 98WO-US21141.

XX 29-OCT-1998; 98WO-US22901.

XX 29-OCT-1998; 98WO-US24992.

XX 20-NOV-1998; 98WO-US24853.

XX 01-DEC-1998; 98WO-US25108.

XX 05-JAN-1999; 99WO-US00106.

XX 08-MAR-1999; 99WO-US05028.

XX 10-MAR-1999; 99WO-US05190.

XX 20-APR-1999; 99WO-US08615.

XX 14-MAY-1999; 99WO-US10733.

XX 02-JUN-1999; 99WO-US12252.

XX 08-SEP-1999; 99WO-US20111.

XX 13-SEP-1999; 99WO-US20944.

XX 15-SEP-1999; 99WO-US21090.

XX 05-OCT-1999; 99WO-US21547.

XX 29-NOV-1999; 99WO-US23089.

XX 30-NOV-1999; 99WO-US28214.

XX 30-NOV-1999; 99WO-US28313.

XX 30-NOV-1999; 99WO-US28409.

XX 01-DEC-1999; 99WO-US28301.

PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31374.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06684.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 29-JUN-2001; 2001WO-US20116.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747259.
 PR 28-FEB-2001; 2001US-0796498.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0806889.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 18-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001US-0860216.
 PR 25-MAY-2001; 2001US-0866028.
 PR 01-JUN-2001; 2001US-0866034.
 PR 05-JUN-2001; 2001US-0872035.
 PR 14-JUN-2001; 2001US-0874503.
 PR 19-JUN-2001; 2001US-0882636.
 PR 21-JUN-2001; 2001US-0886342.
 PR 18-JUL-2001; 2001US-0887879.
 PR 06-AUG-2001; 2001US-0908827.
 PR 09-AUG-2001; 2001US-0927796.
 PR 16-AUG-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.

(GETH) GENENTECH INC.

PA Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;

PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI; 2003-331925/31.
 DR P-PSDB; ABU67033.
 XX
 PT New secreted and transmembrane nucleic acids and polypeptides,
 PT designated as PRO, useful for treating inflammation, organ failure,
 PT atherosclerosis, cardiac injury, infertility, birth defects, premature
 PT aging, AIDS, or cancer
 XX
 PS Claim 2; Fig 375; 659pp; English.
 XX
 CC The invention relates to an isolated nucleic acid comprising, or which is
 CC at least 80% identical to, or the full-length coding sequence of, any of
 CC the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
 CC (one of 275 secreted or transmembrane proteins). The nucleic acid
 CC further comprises the full-length coding sequence of the DNA deposited
 CC under American Type Culture Collection (ATCC) accession number in a list
 CC given in the specification. Also included are vectors and host
 CC cells for producing PRO proteins, PRO fusion proteins, anti-PRO
 CC antibodies, PRO extracellular domains and mature sequences, methods
 CC of detecting PRO proteins, methods for stimulating the release of
 CC TNF-alpha (tumour necrosis factor alpha) from human blood,
 CC (and the proliferation of differentiation of chondrocyte cells, the
 CC proliferation of, or gene expression in pericyte cells, the release or
 CC proteoglycans from cartilage, proliferation of inner ear articular
 CC supporting cells, the proliferation of T-lymphocyte cells, the release
 CC of a cytokine from peripheral blood mononuclear cells (PBMC), or the
 CC proliferation of endothelial cells), a method for modulating the uptake
 CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
 CC a method for inhibiting the binding of A-peptide to factor VIIF,
 CC or the differentiation of adipocyte cells, a method for detecting the
 CC presence of a tumour in a mammal and an oligonucleotide probe derived
 CC from any of the nucleotide sequences cited above. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
 CC diabetic complications. The nucleic acids are useful as hybridisation
 CC probes, in chromosome and gene mapping, and in generating antisense RNA
 CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
 CC biosensors or bioreactors. Both are useful in tissue typing.
 CC The present sequence encodes a PRO protein of the invention.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Query Match 100.0%; Score 1679; DB 25; Length 1679;
 Best Local Similarity 100.0%; Pred No. 0;
 Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTTGTCTCTTCAGCAACAGTGGATTAAATCTCTTCGACAGCTTGAGAGCAAC 60
 DB 1 GTTGTCTCTTCAGCAACAGTGGATTAAATCTCTTCGACAGCTTGAGAGCAAC 60
 QY 61 AATCTATAGGAAGAAGAAAGAAACCAACCTGACCAAAAGAAAGAAAGAAAG 120
 DB 61 AATCTATAGGAAGAAGAAAGAAACCAACCTGACCAAAAGAAAGAAAGAAAG 120
 QY 121 AAGAAAAAATCATGAAAAACCAATCCAGCCAAAAATGCAATTTCTTCTTGGGCAAT 180
 DB 121 AAGAAAAAATCATGAAAAACCAATCCAGCCAAAAATGCAATTTCTTCTTGGGCAAT 180
 QY 181 CTTTCAGGGGCTGGCTGCTGTCTCTCTTTCAAGAGTGCCTCGGAGGAGATGC 240
 DB 181 CTTTCAGGGGCTGGCTGCTGTCTCTCTTTCAAGAGTGCCTCGGAGGAGATGC 240
 QY 241 CACCTTCCCAAGCTATGACCACTGACGCTCGGAGGAGAGAGAGAGAGAGAG 300
 DB 241 CACCTTCCCAAGCTATGACCACTGACGCTCGGAGGAGAGAGAGAGAGAGAG 300
 QY 301 GTGCACATATGACCACTGACGCTCGGAGGAGAGAGAGAGAGAGAGAGAGAGAG 360
 DB 301 GTGCACATATGACCACTGACGCTCGGAGGAGAGAGAGAGAGAGAGAGAGAGAG 360

361 TCCTGGGAATGACAAAGTGTGCTGTGATCCTCGTGGTCTCTGAGCAACACCGAAGC 420
Db
361 TCCTGGGAATGACAAAGTGTGCTGTGATCCTCGTGGTCTCTGAGCAACACCGAAGC 420
361 TCCTGGGAATGACAAAGTGTGCTGTGATCCTCGTGGTCTCTGAGCAACACCGAAGC 420
421 GCAGTACAGATCGAGATCCAGACGCTGGATCTATGACGAGGCGCTTACCTGCTC 480
Db
421 GCAGTACAGATCGAGATCCAGACGCTGGATCTATGACGAGGCGCTTACCTGCTC 480
481 GGTGACAGACAGACACACCGCAAGACCTTAGGGTCCACCTCATGTGCAAGTATCTCC 540
Db
481 GGTGACAGACAGACACACCGCAAGACCTTAGGGTCCACCTCATGTGCAAGTATCTCC 540
541 CAAATTTGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATAGCCTCAC 600
Db
541 CAAATTTGAGATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATAGCCTCAC 600
601 CTGCATAGCAACTGGTAGACAGACGCTTACGGTTACTTGGACACATCTCTCCCAAGC 660
Db
601 CTGCATAGCAACTGGTAGACAGACGCTTACGGTTACTTGGACACATCTCTCCCAAGC 660
661 GGTGGCTTTGTGAGTGAAGACGAATACCTTGGAAATTCAGGGCATCACCGGAGCAGTC 720
Db
661 GGTGGCTTTGTGAGTGAAGACGAATACCTTGGAAATTCAGGGCATCACCGGAGCAGTC 720
721 AGGGGACTTACAGTGTGAGTGGCTTCAATGACGTGGCGGCGCGGTGGTACGGAGAGTAA 780
Db
721 AGGGGACTTACAGTGTGAGTGGCTTCAATGACGTGGCGGCGCGGTGGTACGGAGAGTAA 780
781 GGTACACCGTGAATCTTCCACCATATACATTTAGAGAGGCAAGGTACAGGTGTCCTCGTGG 840
Db
781 GGTACACCGTGAATCTTCCACCATATACATTTAGAGAGGCAAGGTACAGGTGTCCTCGTGG 840
841 ACAAAGGGGACACTGACGTGTGAAGCTCAGCAGTCCCTCAGCAGATTCACAGTGGTA 900
Db
841 ACAAAGGGGACACTGACGTGTGAAGCTCAGCAGTCCCTCAGCAGATTCACAGTGGTA 900
901 CAAGGATGACAAAGACTGATTGAAGGAAGAAAGGGTCAAGTGGAAACAGACCTTT 960
Db
901 CAAGGATGACAAAGACTGATTGAAGGAAGAAAGGGTCAAGTGGAAACAGACCTTT 960
961 CCTCTCAAACTCATCTTCAATGCTCTGACATGACTATGGGAATACATTCGCT 1020
Db
961 CCTCTCAAACTCATCTTCAATGCTCTGACATGACTATGGGAATACATTCGCT 1020
1021 GCGCTCAAAAGCTGGGCCACCAATGCGCAGATCATGCTATTTGGTCCAGCGCGCT 1080
Db
1021 GCGCTCAAAAGCTGGGCCACCAATGCGCAGATCATGCTATTTGGTCCAGCGCGCT 1080
1081 CAGGAGTGAAGCAAGCGGACGCTCAGGAGGCGAGGCTGCTGCTGCTGCTCTTCT 1140
Db
1081 CAGGAGTGAAGCAAGCGGACGCTCAGGAGGCGAGGCTGCTGCTGCTGCTCTTCT 1140
1141 GGTCTTGCACCTGCTTCTCAAAATTTGATGTGAGTGCCACTTCCCGACCGGGAAAGGCT 1200
Db
1141 GGTCTTGCACCTGCTTCTCAAAATTTGATGTGAGTGCCACTTCCCGACCGGGAAAGGCT 1200
1201 GCGCGCACCAACCAACCAACAGCAATGCAACACCGGAGCAACCAATTCAGATA 1260
Db
1201 GCGCGCACCAACCAACCAACAGCAATGCAACACCGGAGCAACCAATTCAGATA 1260
1261 TATCAATGAATTTAGAGAAACACAGCTTATGGGAGAGAAATTTGAGGAGGGAAC 1320
Db
1261 TATCAATGAATTTAGAGAAACACAGCTTATGGGAGAGAAATTTGAGGAGGGAAC 1320
1321 AAGAAATCTTGGGGGAAAGAGTTTAAAGAAATTTGAAATTTGCTTGCAGATA 1380
Db
1321 AAGAAATCTTGGGGGAAAGAGTTTAAAGAAATTTGAAATTTGCTTGCAGATA 1380
1381 TTTAGGTACATGGATTTCTTTTCCCAACCGGGAAGAACACAGCACACCGCGCTTGA 1440
Db
1381 TTTAGGTACATGGATTTCTTTTCCCAACCGGGAAGAACACAGCACACCGCGCTTGA 1440
1441 CCCACTGCAAGTGCATCGTGCAACCTCTTTGTTGTCAGTGTGGGCAAGGCTCAGCCTC 1500

1441 CCCACTGCAAGTGCATCGTGCAACCTCTTTGTTGCGCAGTGTGGGCAAGGCTCAGCCTC 1500
1501 TCTGCCACAGAGTGTGCCCCCAGCGTGGAAACATTTCTGGAGCTGGCCATCCCAATTCATCA 1560
1501 TCTGCCACAGAGTGTGCCCCCAGCGTGGAAACATTTCTGGAGCTGGCCATCCCAATTCATCA 1560
1561 GTCCATAGACAGCAACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGGCGGCACTTTG 1620
1561 GTCCATAGACAGCAACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGGCGGCACTTTG 1620
1621 GTAGCTGTGCCACCAACGCGCTGTGTGTGAAACGTTGAATATAAAGAGCAAAAAA 1679
1621 GTAGCTGTGCCACCAACGCGCTGTGTGTGAAACGTTGAATATAAAGAGCAAAAAA 1679

RESULT 11
ACA04516
ID ACA04516 standard; cDNA; 1679 BP.
XX ACA04516;
AC ACA04516;
DT 28-MAY-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO337 DNA.
XX
XX Secreted and transmembrane polypeptide; PRO polypeptide; PRO533;
KW PRO301; PRO187; PRO337; PRO1411; PRO10096; PRO246; PRO6307; PRO6003;
KW PRO6004; PRO4356; PRO2630; PRO265; PRO941; EGF; bioactive molecule;
KW fibroblast growth factor receptor; cell death; chromosome mapping;
KW gene mapping; transgenic animal; knockout; tumour; gene therapy;
KW tumour; obesity; diabetes; insulinemia; vascular; gene therapy;
KW cardiac insufficiency disorder; immune response; hearing loss;
KW auditory hair cell regeneration; bone disorder; cartilage disorder;
KW sports injury; arthritis; gene; ss.
XX
XX Homo sapiens.
XX
XX US2003032062-A1.
XX
XX 13-FEB-2003.
XX
XX 01-FEB-2002; 2002US-0066273.
XX
XX 14-JUL-1998; 98WO-US14552.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 20-NOV-1998; 98WO-US24855.
PR 25-NOV-1998; 98WO-US25190.
PR 01-DEC-1998; 98WO-US25108.
PR 08-MAR-1999; 98WO-US05028.
PR 01-SEP-1999; 98WO-US12252.
PR 02-JUN-1999; 98WO-US20111.
PR 08-SEP-1999; 98WO-US20594.
PR 15-SEP-1999; 98WO-US21090.
PR 15-SEP-1999; 98WO-US21547.
PR 30-NOV-1999; 98WO-US28313.
PR 01-DEC-1999; 98WO-US28301.
PR 02-DEC-1999; 98WO-US28565.
PR 20-DEC-1999; 98WO-US30899.
PR 05-JAN-2000; 2000WO-US00219.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 01-MAR-2000; 2000WO-US05601.
PR 02-MAR-2000; 2000WO-US05841.
PR 09-MAR-2000; 2000WO-US06471.
PR 20-MAR-2000; 2000WO-US07377.
PR 30-MAR-2000; 2000WO-US08439.
PR 15-MAY-2000; 2000WO-US13358.
PR 17-MAY-2000; 2000WO-US13705.

PR 22-MAY-2000: 200DMO-US14042.
 PR 30-JUN-2000: 200DMO-US14941.
 PR 02-JUN-2000: 200DMO-US15264.
 PR 11-AUG-2000: 200DMO-US22031.
 PR 23-AUG-2000: 200DMO-US23522.
 PR 24-AUG-2000: 200DMO-US23328.
 PR 01-DEC-2000: 200DMO-US23278.
 PR 28-FEB-2001: 2001MO-US05520.
 PR 30-MAY-2001: 2001MO-US17443.
 PR 01-JUN-2001: 2001MO-US17800.
 PR 20-JUN-2001: 2001MO-US19892.
 PR 29-JUN-2001: 2001MO-US21066.
 PR 08-JUL-2001: 2001MO-US21135.
 PR 26-AUG-1997: 97US-056974P.
 PR 17-SEP-1997: 97US-059115P.
 PR 18-SEP-1997: 97US-059243P.
 PR 19-SEP-1997: 97US-059588P.
 PR 17-OCT-1997: 97US-062858P.
 PR 24-OCT-1997: 97US-062816P.
 PR 27-OCT-1997: 97US-063082P.
 PR 29-OCT-1997: 97US-063329P.
 PR 21-NOV-1997: 97US-063733P.
 PR 25-NOV-1997: 97US-066840P.
 PR 16-DEC-1997: 97US-069694P.
 PR 09-FEB-1998: 98US-074086P.
 PR 05-FEB-1998: 98US-074092P.
 PR 25-MAR-1998: 98US-079294P.
 PR 08-APR-1998: 98US-081049P.
 PR 10-AUG-1998: 98US-095998P.
 PR 18-AUG-1998: 98US-097000P.
 PR 09-SEP-1998: 98US-099601P.
 PR 10-SEP-1998: 98US-099803P.
 PR 10-SEP-1998: 98US-099811P.
 PR 17-SEP-1998: 98US-099812P.
 PR 24-SEP-1998: 98US-100858P.
 PR 28-OCT-1998: 98US-101922P.
 PR 20-NOV-1998: 98US-106032P.
 PR 23-MAR-1999: 98US-109304P.
 PR 15-JUN-1999: 99US-139695P.
 PR 20-JUL-1999: 99US-145070P.
 PR 26-JUL-1999: 99US-145698P.
 PR 17-AUG-1999: 99US-149366P.
 PR 07-DEC-1999: 99US-169495P.
 PR 15-NOV-2001: 2001US-0002796.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Kijavini IJ, Mather JP, Napier MA, Pan J;
 PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX
 WPI: 2003-341963/32.
 DR P-PSDB; ABU67162.
 XX
 XX
 PT New secreted and transmembrane polypeptide for modulating biological
 PT activity of a cell expressing the polypeptide, identifying agonists or
 PT antagonists of the polypeptide, and as molecular weight markers
 XX
 PS Claim 2; Fig 51; 254pp; English.
 XX
 CC The invention describes an isolated, secreted and transmembrane
 CC polypeptide (I), termed PRO polypeptide. (I) is useful for detecting
 CC PRO333, PRO301, PRO187, PRO337, PRO1411, PRO10096, PRO246, PRO6307,
 CC PRO6003, PRO6004, PRO4356, PRO2630, PRO265, PRO941, fibroblast growth
 CC factor receptor (FGFR)-4, FGFR-3, FGFR-2 or FGFR-1 polypeptide, and for
 CC linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
 CC cell expressing the polypeptides. The bioactive molecule causes cell
 CC death. (II) is useful as hybridisation probes in chromosome and gene
 CC mapping, in generation of antisense RNA and DNA, in the preparation of

CC PRO polypeptide, for generating transgenic animals or knockout animals
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, and for the genetic analysis of
 CC individuals with genetic disorders, in gene therapy, and for chromosome
 CC identification. (I) Or Ab is useful for the preparation of medicament for
 CC treating conditions which are responsive to the PRO polypeptide or
 CC anti-PRO antibody e.g. a tumour (I) is useful for treating obesity,
 CC diabetes or hypo- or hyper-insulinemia, and cardiac insufficiency
 CC disorders, for inhibiting tumour growth, enhances vascular permeability
 CC and immune response, for inducing regeneration of auditory hair cells and
 CC cartilage disorders such as sports injuries and for treating bone and/or
 CC cartilage disorders such as sports injuries and arthritis. This sequence
 CC encodes a novel human secreted and transmembrane polypeptide.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
 Query Match 100.0%; Score 1679; DB 25; Length 1679;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 GTTGTGCTCTCAGCAAAACAGTGGATTTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 DB 1 GTTGTGCTCTCAGCAAAACAGTGGATTTAAATCTCTTGCACAAAGCTTGAGAGCAAC 60
 QY 61 AATCTATCAGGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
 DB 61 AATCTATCAGGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
 QY 121 AAGAAAAAATCATGAAACCAATCCAGGCAAAATATGCAATTTCTATCTCTTGGGCAAT 180
 DB 121 AAGAAAAAATCATGAAACCAATCCAGGCAAAATATGCAATTTCTATCTCTTGGGCAAT 180
 QY 181 CTTTCAGGGGCTGCTGCTCTCTCTCTTCCAAGAGTGCCTCGCGCAGCGGAGATGC 240
 DB 181 CTTTCAGGGGCTGCTGCTCTCTCTCTTCCAAGAGTGCCTCGCGCAGCGGAGATGC 240
 QY 241 CACCTTCCCAAAAGCTATGGAACAGTGCAGGCTCGCGGAGGAGAGAGAGAGAGAG 300
 DB 241 CACCTTCCCAAAAGCTATGGAACAGTGCAGGCTCGCGGAGGAGAGAGAGAGAGAG 300
 QY 301 GTGCACCTATTGACAAACCGGTCACCGGGTGGCTTAAACCGCAGCACCCTCTCTA 360
 DB 301 GTGCACCTATTGACAAACCGGTCACCGGGTGGCTTAAACCGCAGCACCCTCTCTA 360
 QY 361 TCGTGGGAATGACAAAGTGCCTGCTGCTCTCTGCTGCTCTCTGAGCAACCAAC 420
 DB 361 TCGTGGGAATGACAAAGTGCCTGCTGCTCTCTGCTGCTCTCTGAGCAACCAAC 420
 QY 421 GCAGTACAGCATCGAGATCCAGACAGTGGATGTATGACGAGGAGGAGGAGGAGGAG 480
 DB 421 GCAGTACAGCATCGAGATCCAGACAGTGGATGTATGACGAGGAGGAGGAGGAGGAG 480
 QY 481 GGTGCAGACAGAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 540
 DB 481 GGTGCAGACAGAAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 540
 QY 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTTAATGAAGGAGCAATATTAGCCTAC 600
 DB 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTTAATGAAGGAGCAATATTAGCCTAC 600
 QY 601 CTGCATAGCAATCTGAGACAGAGCCTAGGTTTACTTTGGAGACACATCTCTCCCAAGC 660
 DB 601 CTGCATAGCAATCTGAGACAGAGCCTAGGTTTACTTTGGAGACACATCTCTCCCAAGC 660
 QY 661 GGTTCGCTTTGTGAGTGAAGAGAAATCTTGAATTTAGGGGATCATCCCGGAGGAGTGC 720
 DB 661 GGTTCGCTTTGTGAGTGAAGAGAAATCTTGAATTTAGGGGATCATCCCGGAGGAGTGC 720
 QY 721 AGGGGACTAGGAGTGCAGTGCCTCAATGACGTGCGCCGCGCCGCGGAGAGATAA 780
 DB 721 AGGGGACTAGGAGTGCAGTGCCTCAATGACGTGCGCCGCGCCGCGGAGAGATAA 780
 QY 781 GGTTCACCGGTGAACACTATCCACCATACATTTTCAGAGAGCCAGGTTACAGTGTCTCCCGTGGG 840

Db 781 GGTACCGTGAAGTATCCACCATATCTTCAAGGCAAGGTCAGAGTGTCCCGTGGG 840
 Qy 841 ACAAAAGGACACTGCAAGTGTGAAGCTCAGAGTGTCCCGTCAAGAGTTCAGTGGTA 900
 Db 841 ACAAAAGGACACTGCAAGTGTGAAGCTCAGAGTGTCCCGTCAAGAGTTCAGTGGTA 900
 Qy 901 CAAGGATGACAAAGACTGATGAAGGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Db 901 CAAGGATGACAAAGACTGATGAAGGAAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 960
 Qy 961 CCTCTCAAACTCATCTCTTCAATGTCTCTGAACATGACTATGGGAACATACACTTTGGCT 1020
 Db 961 CCTCTCAAACTCATCTCTTCAATGTCTCTGAACATGACTATGGGAACATACACTTTGGCT 1020
 Qy 1021 GGCCTCCAAAGCTGGGCCACACCAATGCCAGCATCATGCTATTTGGTCCAGGCGCCGT 1080
 Db 1021 GGCCTCCAAAGCTGGGCCACACCAATGCCAGCATCATGCTATTTGGTCCAGGCGCCGT 1080
 Qy 1081 CAGCGAGGTGAGCAAGGACGCTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1140
 Db 1081 CAGCGAGGTGAGCAAGGACGCTCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1140
 Qy 1141 GGTCTTGCACTGCTCTCAATTTTGTATGTGAGTGGCACTTCCCAACCGGGAAGGCT 1200
 Db 1141 GGTCTTGCACTGCTCTCAATTTTGTATGTGAGTGGCACTTCCCAACCGGGAAGGCT 1200
 Qy 1201 GCGGCCACCAACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 1260
 Db 1201 GCGGCCACCAACCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCAAGCA 1260
 Qy 1261 TATACAAATGAATTAAGAAACACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1320
 Db 1261 TATACAAATGAATTAAGAAACACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1320
 Qy 1321 AAGAATACATTTGGGGGAAAGAGTTTAAAGAAAGAAATTTGAAATTTGCTTTGCAGATA 1380
 Db 1321 AAGAATACATTTGGGGGAAAGAGTTTAAAGAAAGAAATTTGAAATTTGCTTTGCAGATA 1380
 Qy 1381 TTAGTGTACATTTGGAGTTTCTTTTCCCAACCGGGAAGGAGGAGGAGGAGGAGGAGG 1440
 Db 1381 TTAGTGTACATTTGGAGTTTCTTTTCCCAACCGGGAAGGAGGAGGAGGAGGAGGAGG 1440
 Qy 1441 CCCACTGCAAGTGCATCGTCAACCTCTTTGTGTCAGTGTGGGCAAGGCTCAGCCCTC 1500
 Db 1441 CCCACTGCAAGTGCATCGTCAACCTCTTTGTGTCAGTGTGGGCAAGGCTCAGCCCTC 1500
 Qy 1501 TCTGCCACAGAGTGTCCCGGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1560
 Db 1501 TCTGCCACAGAGTGTCCCGGCAAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1560
 Qy 1561 GTCCATAGAGAGCAAGCAAGTGAAGCTTCCCGGCAAGGAGGAGGAGGAGGAGGAGGAGG 1620
 Db 1561 GTCCATAGAGAGCAAGCAAGTGAAGCTTCCCGGCAAGGAGGAGGAGGAGGAGGAGGAGG 1620
 Qy 1621 GTAGCTGTGCAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1679
 Db 1621 GTAGCTGTGCAACGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 1679

RESULT 12
 ID ACA04996 standard; cdna: 1679 BP.
 AC ACA04996;
 DT 28-MAY-2003 (first entry)
 DE Novel human secreted and transmembrane protein PRO337 cdna.
 KW Secreted and transmembrane polypeptide; PRO polypeptide; PRO533;
 KW PRO301; PRO187; PRO337; PRO1411; PRO10096; PRO246; PRO6307; PRO6003;
 KW PRO6004; PRO4356; PRO2630; PRO265; PRO941; FGFR; bioactive molecule;

KW fibroblast growth factor receptor; cell death; chromosome mapping;
 KW gene mapping; transgenic animal; knockout animal; gene therapy;
 KW tumour; obesity; diabetes; insulinemia; vascular permeability;
 KW cardiac insufficiency disorder; immune response; hearing loss;
 KW auditory hair cell regeneration; bone disorder; cartilage disorder;
 KW sports injury; arthritis; gene; ss.
 XX
 OS Homo sapiens.
 XX
 XX US2003032063-A1.
 XX
 XX 13-FEB-2003.
 XX
 XX 01-FEB-2002; 2002US-0066494.
 XX
 XX 14-SEP-1998; 98WO-US19093.
 XX 16-SEP-1998; 98WO-US19330.
 XX 17-SEP-1998; 98WO-US19437.
 XX 20-NOV-1998; 98WO-US24855.
 XX 25-NOV-1998; 98WO-US25190.
 XX 01-DEC-1998; 98WO-US25108.
 XX 08-MAR-1999; 99WO-US05028.
 XX 02-JUN-1999; 98WO-US12252.
 XX 01-SEP-1999; 98WO-US20111.
 XX 08-SEP-1999; 98WO-US20544.
 XX 15-SEP-1999; 98WO-US21090.
 XX 30-SEP-1999; 99WO-US21347.
 XX 01-DEC-1999; 99WO-US28301.
 XX 02-DEC-1999; 99WO-US28565.
 XX 20-DEC-1999; 99WO-US30999.
 XX 05-JAN-2000; 2000WO-US00219.
 XX 18-FEB-2000; 2000WO-US04341.
 XX 18-FEB-2000; 2000WO-US04342.
 XX 22-FEB-2000; 2000WO-US04414.
 XX 01-MAR-2000; 2000WO-US05601.
 XX 02-MAR-2000; 2000WO-US05841.
 XX 09-MAR-2000; 2000WO-US06471.
 XX 20-MAR-2000; 2000WO-US07377.
 XX 30-MAR-2000; 2000WO-US08439.
 XX 15-MAY-2000; 2000WO-US13358.
 XX 17-MAY-2000; 2000WO-US13705.
 XX 22-MAY-2000; 2000WO-US14042.
 XX 30-MAY-2000; 2000WO-US14941.
 XX 02-JUN-2000; 2000WO-US15264.
 XX 11-AUG-2000; 2000WO-US22031.
 XX 23-AUG-2000; 2000WO-US23522.
 XX 24-AUG-2000; 2000WO-US23328.
 XX 01-DEC-2000; 2000WO-US32678.
 XX 28-FEB-2001; 2001WO-US06520.
 XX 30-MAY-2001; 2001WO-US17443.
 XX 01-JUN-2001; 2001WO-US17800.
 XX 20-JUN-2001; 2001WO-US19692.
 XX 29-JUN-2001; 2001WO-US21066.
 XX 09-JUL-2001; 2001WO-US21755.
 XX 26-AUG-1997; 97US-058774P.
 XX 17-SEP-1997; 97US-059115P.
 XX 18-SEP-1997; 97US-059263P.
 XX 19-SEP-1997; 97US-059588P.
 XX 27-OCT-1997; 97US-062285P.
 XX 24-OCT-1997; 97US-062816P.
 XX 24-OCT-1997; 97US-063082P.
 XX 27-OCT-1997; 97US-063329P.
 XX 29-OCT-1997; 97US-063733P.
 XX 21-NOV-1997; 97US-066364P.
 XX 25-NOV-1997; 97US-066840P.
 XX 16-DEC-1997; 97US-069694P.
 XX 09-FEB-1998; 98US-074086P.
 XX 09-FEB-1998; 98US-074092P.
 XX 08-APR-1998; 98US-079294P.
 XX 10-AUG-1998; 98US-095998P.
 XX 18-AUG-1998; 98US-097000P.

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PR 09-SEP-1998; 98US-099601P.
PR 10-SEP-1998; 98US-099803P.
PR 10-SEP-1998; 98US-099811P.
PR 10-SEP-1998; 98US-099812P.
PR 17-SEP-1998; 98US-100858P.
PR 24-SEP-1998; 98US-101922P.
PR 28-OCT-1998; 98US-106032P.
PR 20-NOV-1998; 98US-109304P.
PR 23-MAR-1999; 98US-125778P.
PR 15-JUN-1999; 98US-139695P.
PR 20-JUL-1999; 98US-145070P.
PR 26-JUL-1999; 98US-145698P.
PR 17-AUG-1999; 98US-149396P.
PR 07-DEC-1999; 98US-169495P.
PR 15-NOV-2001; 2001US-0002796.
XX (GETH ) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
XX Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
XX Godowski PJ, Gurney AL, Kljavin IJ, Mather JP, Napier MA, Pan J;
XX Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
XX Wood WI, Zhang Z;
XX
XX WPI: 2003-341964/32.
XX P-PSDB; ABU67293.
XX
XX Thirty seven nucleic acids encoding novel secreted and transmembrane
XX PRO polypeptides, useful for modulating biological activity of cell
XX expressing the polypeptide, and in chromosome and gene mapping
XX
XX Claim 2: Fig 51: 255pp; English.
XX
XX The invention describes an isolated, secreted and transmembrane
XX polypeptide (I), termed PRO polypeptide. (I) is useful for detecting
XX PRO333, PRO301, PRO187, PRO337, PRO1411, PRO10096, PRO246, PRO307,
XX factor receptor (FGR)-4, FGR-3, FGR-2 or FGR-1 polypeptide, and for
XX linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
XX cell expressing the polypeptides. The bioactive molecule causes cell
XX death. (II) is useful as hybridisation probes, in chromosome and gene
XX mapping, in generation of antisense RNA and DNA, in the preparation of
XX PRO polypeptide, for generating transgenic animals or knockout animals
XX which in turn are useful in the development and screening of
XX therapeutically useful reagents, and for the genetic analysis of
XX individuals with genetic disorders, in gene therapy, and for chromosome
XX identification. (I) Or Ab is useful for the preparation of medicament for
XX treating conditions which are responsive to the PRO polypeptide or
XX anti-PRO antibody e.g. a tumour. (I) is useful for treating obesity,
XX diabetes or hypo- or hyper-insulinaemia, and cardiac insufficiency.
XX disorders, for inhibiting tumour growth, enhances vascular permeability
XX and immune response, for inducing regeneration of auditory hair cells and
XX for treating hearing loss in mammals, and for treating bone and/or
XX cartilage disorders such as sports injuries and arthritis. This sequence
XX encodes a novel human secreted and transmembrane polypeptide
XX associated oligonucleotide.
XX
XX Sequence 1679 BP: 498 A; 432 C; 419 G; 330 T; 0 other;
XX
XX Query Match 100.0%; Score 1679; DB 25; Length 1679;
XX Best Local Similarity 100.0%; Pred. No. 0;
XX Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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XX 1 GPTGTGTCCTTCAGCAAAAACAGTGATTTAAATCTCTTGCACAAAGCTTGAGAGCAACAC 60
XX Db |
XX 1 GPTGTGTCCTTCAGCAAAAACAGTGATTTAAATCTCTTGCACAAAGCTTGAGAGCAACAC 60
XX
XX 61 AATCTATCAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
XX Db |
XX 61 AATCTATCAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG 120
XX
XX 121 AAAAAAAAAATCATGAAACCATCCAGCAAAAAGTGCACAAATTCATCTCTTTGGCAAT 180
XX |
XX
XX 121 AAAAAAAAAATCATGAAACCATCCAGCAAAAAGTGCACAAATTCATCTCTTTGGCAAT 180
XX |
XX
XX 181 CTTACGGGGCTGGCTGCTGTGTCTCTTCCAAAGAGTGCCTCGCGCAGCGAGATGC 240
XX |
XX 181 CTTACGGGGCTGGCTGCTGTGTCTCTTCCAAAGAGTGCCTCGCGCAGCGAGATGC 240
XX |
XX
XX 241 CACCTTCCCAAAAGCTATGAGCAACAGTGCAGCGTCCGGCAGGGGAGAGGCCACCTCAG 300
XX |
XX 241 CACCTTCCCAAAAGCTATGAGCAACAGTGCAGCGTCCGGCAGGGGAGAGGCCACCTCAG 300
XX |
XX
XX 301 GTGCACTATTGACAAACCGGGTCAACCGGGTGGCTTAAACGCGAGCACCCTCTCTA 360
XX |
XX 301 GTGCACTATTGACAAACCGGGTCAACCGGGTGGCTTAAACGCGAGCACCCTCTCTA 360
XX |
XX
XX 361 TGTGGGAATGACAAAGTGGTGGATCTCTCGCGTGGTCTCTGAGCAACACCAAC 420
XX |
XX 361 TGTGGGAATGACAAAGTGGTGGATCTCTCGCGTGGTCTCTGAGCAACACCAAC 420
XX |
XX
XX 421 GCAGTACAGCATCGAGATCCAGAACGTGGATGTGTATGACGAGGGCCCTTACACCTGCTC 480
XX |
XX 421 GCAGTACAGCATCGAGATCCAGAACGTGGATGTGTATGACGAGGGCCCTTACACCTGCTC 480
XX |
XX
XX 481 GGTGCAGACAGCAACCAACCAAGACCTCTAGGCTCCACCTCATTTGTGCAAGTATCTCC 540
XX |
XX 481 GGTGCAGACAGCAACCAACCAAGACCTCTAGGCTCCACCTCATTTGTGCAAGTATCTCC 540
XX |
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XX 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTAATCAAGGGGAACAATATTAGCTCAC 600
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XX 541 CAAATTTGTAGAGATTTCTTCAGATATCTCCATTAATCAAGGGGAACAATATTAGCTCAC 600
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XX 601 CTCATAGCACTGGTAGACAGAGCTTACGTTACTTGGAGACACATCTCTCCAAAGC 660
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XX
XX 661 GGTGGCTTTGTAGTGAAGCAATCTTGGAAATTCAGGGCATACCCGGGAGCAGTC 720
XX |
XX 661 GGTGGCTTTGTAGTGAAGCAATCTTGGAAATTCAGGGCATACCCGGGAGCAGTC 720
XX |
XX
XX 721 AGGGGACTACGAGTGCCTCCCAATGACCTGCGCGCCCGCTGGTACGAGAGTAA 780
XX |
XX 721 AGGGGACTACGAGTGCCTCCCAATGACCTGCGCGCCCGCTGGTACGAGAGTAA 780
XX |
XX
XX 781 GGTACCGTGAAGTATCCACATACATTTTCAAGAGCCCAAGGGTACAGGTGTCCTCCG 840
XX |
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XX 841 ACAAAGGGGACACTGCGAGTGAAGAGCCCTCAGCAGTCCCTCAGCAGAAATTCAGTGTA 900
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XX 841 ACAAAGGGGACACTGCGAGTGAAGAGCCCTCAGCAGTCCCTCAGCAGAAATTCAGTGTA 900
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XX 961 CTTCTCAAACTCATCTCTCAATCTCTCAATCATCTCTCAATCATCTCTCAATCATCTCT 1020
XX |
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XX |
XX
XX 1021 GGCTCCAAAGAGCTGGGCCACACCAATGCCAGCATCATGCTATTTGGTCCAGGCCGCT 1080
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XX |
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XX |
XX 1141 GGTCTTGCACCTTGCTCTCTCAATTTTGTAGTGCACCTTCCACCCAGCGGGAAGGCT 1200
XX |
XX
XX 1201 GCGCCACCCACCCACCAACCAACAGCAATGGCAACACCGAGCAACCAATCAGATA 1260
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XX 1201 GCGCCACCCACCCACCAACCAACAGCAATGGCAACACCGAGCAACCAATCAGATA 1260
XX |
XX
XX 1201 GCGCCACCCACCCACCAACCAACAGCAATGGCAACACCGAGCAACCAATCAGATA 1260
XX |
XX

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QY 1261 TATCAAAATGAATAGAGAGAAACACAGCCTCATGAGACAGAAATTTGAGGGAGGGAAC 1320
Db 1261 TATCAAAATGAATAGAGAGAAACACAGCCTCATGAGACAGAAATTTGAGGGAGGGAAC 1320
QY 1321 AAAGAATACCTTTGGGGGAAAAGAGTTTAAAAAGAAATTTGAAATTTGCTTGCAGATA 1380
Db 1321 AAAGAATACCTTTGGGGGAAAAGAGTTTAAAAAGAAATTTGAAATTTGCTTGCAGATA 1380
QY 1381 TTTAGGTACAAATGGAGTTTCTTTTCCCAACCGGGAAGAACACAGCACACCCGGCTTGA 1440
Db 1381 TTTAGGTACAAATGGAGTTTCTTTTCCCAACCGGGAAGAACACAGCACACCCGGCTTGA 1440
QY 1441 CCCACTGCAAGCTGTCATGTCACACCTTTTGTGTCAGTGTGGCAAGGGCTCAGCCTC 1500
Db 1441 CCCACTGCAAGCTGTCATGTCACACCTTTTGTGTCAGTGTGGCAAGGGCTCAGCCTC 1500
QY 1501 TCTGCCACAGAGTGCCCCACGTCGGAACATTTCTGGAGCTGCCATCCCAAAATTCATCA 1560
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QY 1561 GTCCATAGACGACGACAGANTGACACCTTCCGGCCCAAGCTGGCGTGGCGGCACTTTG 1620
Db 1561 GTCCATAGACGACGACAGANTGACACCTTCCGGCCCAAGCTGGCGTGGCGGCACTTTG 1620
QY 1621 GTAGCTGTGCCACACGCGCTGTGTGTAACGTAATTAAGAGCAAAAAA 1679
Db 1621 GTAGCTGTGCCACACGCGCTGTGTGTAACGTAATTAAGAGCAAAAAA 1679

RESULT 13

ABX89328

ID ABX89328 standard; cDNA; 1679 BP.

AC AC

ABX89328;

DT DT

13-MAY-2003 (first entry)

DE DE

DNA encoding novel secreted and transmembrane protein PRO337.

XX XX

Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;

XX XX

cardiac insufficiency disorder; cancer; tumor; immune response;

XX XX

adrenal cortical capillary endothelial growth; c-fos induction;

XX XX

vascular endothelial growth factor inhibition; VEGF inhibition;

XX XX

endothelial cell growth inhibitor; T-lymphocytes stimulation;

XX XX

retinal neurons cell survival; rod photoreceptor cell survival;

XX XX

retinal disorder; retinitis pigmentosa; kidney disease;

XX XX

mammalian kidney mesangial cell proliferation; Berger disease;

XX XX

dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;

XX XX

chondrocyte redifferentiation; sports injury; arthritis; gene; ss.

OS OS

Homo sapiens.

XX XX

US2003017563-A1.

XX XX

23-JAN-2003.

XX XX

07-MAY-2002; 2002US-0140808.

XX XX

31-MAR-1997;

XX XX

97WO-US05230.

XX XX

12-JUN-1998;

XX XX

98WO-US12456.

XX XX

14-JUL-1998;

XX XX

98WO-US14552.

XX XX

28-AUG-1998;

XX XX

98WO-US17888.

XX XX

10-SEP-1998;

XX XX

98WO-US18824.

XX XX

14-SEP-1998;

XX XX

98WO-US19093.

XX XX

14-SEP-1998;

XX XX

98WO-US19094.

XX XX

14-SEP-1998;

XX XX

98WO-US19177.

XX XX

16-SEP-1998;

XX XX

98WO-US19330.

XX XX

17-SEP-1998;

XX XX

98WO-US19437.

XX XX

07-OCT-1998;

XX XX

98WO-US21141.

XX XX

29-OCT-1998;

XX XX

98WO-US22091.

XX XX

29-OCT-1998;

XX XX

98WO-US22092.

XX XX

20-NOV-1998;

XX XX

98WO-US24855.

QY 1501 TCTGCCACAGAGTGCCGCCACGCTGGAGACATTCGGAGCTGGCCATCCCAATTCATCA 1560
 DB 1501 TCTGCCACAGAGTGCCGCCACGCTGGAGACATTCGGAGCTGGCCATCCCAATTCATCA 1560
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 DB 1561 GTCATAGACAGACAGAAATGAGACCTTCGCGGCCCAAGCGTGGCGCTGGCGGCACCTTTG 1620
 QY 1621 GTAGACTGTGCCACACGCGCGTGTGTGTGAACGCTGAATAAAAAGAGCAAAAAA 1679
 DB 1621 GTAGACTGTGCCACACGCGCGTGTGTGTGAACGCTGAATAAAAAGAGCAAAAAA 1679
 RESULT 15
 ID AAZ47893
 XX AAZ47893 standard; cDNA; 1693 BP.
 AC AAZ47893;
 XX
 DT 10-MAR-2000 (first entry)
 XX
 DE Human protein encoding cDNA SEQ ID NO:3.
 XX
 KW Human; haematopoietic cell regulation; tissue generation; repair;
 KW actin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
 KW receptor; ligand; autoimmune; infection-related immunodeficiency;
 KW inflammatory disorder; neurological disease; ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FE CDS 214..1164
 FI /*tag= a
 XX
 PN WO958668-A1.
 XX
 PD 18-NOV-1999.
 XX
 PF 13-MAY-1999; 99WO-JP02485.
 XX
 PR 14-MAY-1999; 98JP-0131815.
 XX
 PA (ONCY) ONO PHARM CO LTD.
 XX
 PI Fukushima D, Shibayama S, Tada H;
 XX
 DR WPI; 2000-062298/05.
 XX
 PT P-PSDB; AAV57601.
 XX
 PT New polypeptides of human origin having cell regulatory, tissue
 XX generation, coagulant and other activities
 PS Claim 5; Page 42-45; 84pp; Japanese.
 CC The present sequence encodes a specifically claimed novel human protein.
 CC The novel human protein can be used in therapeutic drugs for the
 CC prevention and treatment of a broad range of disorders including
 CC autoimmune and infection-related immunodeficiency, inflammatory
 CC disorders, and neurological diseases. The novel protein is expected of
 CC having haematopoietic cell regulatory activity, tissue generation/
 CC repair activity, actin/inhibin activity, taxis/chemotaxis activity,
 CC blood coagulation and thrombus activity, and receptor/ligand activity.
 XX
 SS Sequence 1693 BP; 518 A; 432 C; 416 G; 327 T; 0 other;
 Query Match 99.0%; Score 1661.4; DB 21; Length 1693;
 Best Local Similarity 99.9%; Pred. No. 0;
 Matches 1673; Conservative 0; Mismatches 1; Indels 1; Gaps 1;
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 DB 1 GTCCCTCAGCAACACAGTGGATTAAATCTCTTGCACAGCTTGAGCAACAACTCT 60

66 ATCAGGAAGAAGAAGAG - AAAAAAACCCGACCTGCACAAAAAAGAAAGAAAGAAAGAGA 124
 DB 61 ATCAGGAAGAAGAAGAG - AAAAAAACCCGACCTGCACAAAAAAGAAAGAAAGAGA 120
 QY 125 AAAAAATCATGAAACCATCCAGGCCAAATAATGACAAATTCATCTCTTGGGCAATCTTC 184
 DB 121 AAAAAATCATGAAACCATCCAGGCCAAATAATGACAAATTCATCTCTTGGGCAATCTTC 180
 QY 185 ACGGGGTGGCTGTCTGTGTCTCTCCAAAGAGTGGCGGTGGCGAGCGGAGATGCCACC 244
 DB 181 ACGGGGTGGCTGTCTGTGTCTCTCCAAAGAGTGGCGGTGGCGAGCGGAGATGCCACC 240
 QY 245 TTCCCAAAAGCTATGGACAACGTCACGGTCCGCGAGGGGAGAGCGCCACCTCAGGTGC 304
 DB 241 TTCCCAAAAGCTATGGACAACGTCACGGTCCGCGAGGGGAGAGCGCCACCTCAGGTGC 300
 QY 305 ACTATTGACAACCGGGTCCACCGGGTGGCTGCTAAACCGCAGCAGCATCTCTATGCT 364
 DB 301 ACTATTGACAACCGGGTCCACCGGGTGGCTGCTAAACCGCAGCAGCATCTCTATGCT 360
 QY 365 GGAATGACAAGTGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 424
 DB 361 GGAATGACAAGTGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 420
 QY 425 TACAGCATCGAGATCCAGAAGCTGATGTGTATGAGAGGGGCGCTTACACTGCTCGGTG 484
 DB 421 TACAGCATCGAGATCCAGAAGCTGATGTGTATGAGAGGGGCGCTTACACTGCTCGGTG 480
 QY 485 CAGACAGACACCCACCAAGACCTCTAGGGTCCACCTATTGTGCAAGTATCTCCCAA 544
 DB 481 CAGACAGACACCCACCAAGACCTCTAGGGTCCACCTATTGTGCAAGTATCTCCCAA 540
 QY 545 ATTGTAGATTTCTTCAGATATCTCCATTAAATGAGGAGCAATATAGCTCCTCG 604
 DB 541 ATTGTAGATTTCTTCAGATATCTCCATTAAATGAGGAGCAATATAGCTCCTCG 600
 QY 605 ATAGCAACTGGTAGACAGAGCTTACCTGAGTGTGAGAGACATCTCTCCCAAGGGTT 664
 DB 601 ATAGCAACTGGTAGACAGAGCTTACCTGAGTGTGAGAGACATCTCTCCCAAGGGTT 660
 QY 665 GCTTTGTGAGTGAAGACGAATACCTTGGAAATTCAGGGCATCACCGGAGAGTCAAGG 724
 DB 661 GCTTTGTGAGTGAAGACGAATACCTTGGAAATTCAGGGCATCACCGGAGAGTCAAGG 720
 QY 725 GACTACGAGTGCAGTGCCTTCCAATGACGTGGCGCGCGCGTGGTACGGAGAGTAAAGGTC 784
 DB 721 GACTACGAGTGCAGTGCCTTCCAATGACGTGGCGCGCGCGTGGTACGGAGAGTAAAGGTC 780
 QY 785 ACCGTGAATCTATCCACCATACATTTTCAAGAACCAAGGTACAGGTGTCCCGTGGGACAA 844
 DB 781 ACCGTGAATCTATCCACCATACATTTTCAAGAACCAAGGTACAGGTGTCCCGTGGGACAA 840
 QY 845 AAGGGACACTGCTGTCAGCTCAGCAGTCCCTCAGCAGATTTCCAGTGGTCAAG 904
 DB 841 AAGGGACACTGCTGTCAGCTCAGCAGTCCCTCAGCAGATTTCCAGTGGTCAAG 900
 QY 905 GATGACAAAAGACTGATTCAGAGAAAGAGGGGTGAAGTGAAGAAACAGACCTTCTC 964
 DB 901 GATGACAAAAGACTGATTCAGAGAAAGAGGGGTGAAGTGAAGAAACAGACCTTCTC 960
 QY 965 TCAAACTCATCTTCTTCAATGTCTCTGAAACATGATGGAACATACACTTGGGTGGCC 1024
 DB 961 TCAAACTCATCTTCTTCAATGTCTCTGAAACATGATGGAACATACACTTGGGTGGCC 1020
 QY 1025 TCCAAAGCTGGGGCCACACCAATGCCAGCATCATCTATTGGTTCAGGCGCGCTCAGC 1084
 DB 1021 TCCAAAGCTGGGGCCACACCAATGCCAGCATCATCTATTGGTTCAGGCGCGCTCAGC 1080
 QY 1085 GAGGTGAGCAACGGCAGCTCCAGGAGGGCAGGTGCTGCTGCTGCTCTCTCTCTCTCT 1144
 DB 1081 GAGGTGAGCAACGGCAGCTCCAGGAGGGCAGGTGCTGCTGCTGCTCTCTCTCTCTCT 1140
 QY 1145 TTGACCTGCTTCTCAATTTTGTGAGTGGCCACTTCCCAACCGGAGAGGCTGCCG 1204

|||||
Db 1141 TTGCACCTCTCTCAAAATTTTGTGAGTGCCACTTCCCAACCGGAAGGCTGCCG 1200
QY 1205 CGACGACACACACACACACAGCAAGTGGCAACACGACAGCAACCAATCAGATATATA 1264
Db 1201 CCACCAACCAACACACACACAGCAAGTGGCAACACGACAGCAACCAATCAGATATATA 1260
QY 1265 CAAATGAATTTAGAAGAACACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAACAAAG 1324
Db 1261 CAAATGAATTTAGAAGAACACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAACAAAG 1320
QY 1325 AATACTTTGGGGGAAAAGAGTTTAAAAAAGAAATTTGAAATTTGCCTTGCAGATATTTA 1384
Db 1321 AATACTTTGGGGGAAAAGAGTTTAAAAAAGAAATTTGAAATTTGCCTTGCAGATATTTA 1380
QY 1385 GTACAAATGGAGTTTCTTTTCCAAACGGGAAGAACACACAGCACACCCCGCTTGAACCCA 1444
Db 1381 GTACAAATGGAGTTTCTTTTCCAAACGGGAAGAACACACAGCACACCCCGCTTGAACCCA 1440
QY 1445 CTCGAAGCTGCATCGTCAACCTCTTTGTGCCAGTGTGGGCAAGGGCTCAGCCTCTCTG 1504
Db 1441 CTCGAAGCTGCATCGTCAACCTCTTTGTGCCAGTGTGGGCAAGGGCTCAGCCTCTCTG 1500
QY 1505 CCCACAGAGTCCCCCACGCGGAACATTTCTGGAGCTGGCCATCCCAAAATTCATCAGTCC 1564
Db 1501 CCCACAGAGTCCCCCACGCGGAACATTTCTGGAGCTGGCCATCCCAAAATTCATCAGTCC 1560
QY 1565 ATAGAGACGACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGGGGCACTTTGGTAG 1624
Db 1561 ATAGAGACGACAGAAATGAGACCTTCCGGCCCAAGCGTGGCGCTGGGGCACTTTGGTAG 1620
QY 1625 ACTGTCCCAACGCGCTGTGTGTGAACGTGAATAAAAAAGACAAAAA 1679
Db 1621 ACTGTCCCAACGCGCTGTGTGTGAACGTGAATAAAAAAGACAAAAA 1675

Search completed: September 10, 2003, 23:22:31
Job time : 575 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: September 10, 2003, 23:22:37 : Search time 154 Seconds.
(without alignments)
4812.223 Million cell updates/sec

Title: US-10-017-084A-522
Perfect score: 1679
Sequence: 1 gttgtctcttcagcaaac.....ataaaagagcaaaaaaa 1679

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 56978 segs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued Patents NA.*
1: /cgn2_6/ptodata/2/ina/5A-COMB.seq.*
2: /cgn2_6/ptodata/2/ina/5B-COMB.seq.*
3: /cgn2_6/ptodata/2/ina/6A-COMB.seq.*
4: /cgn2_6/ptodata/2/ina/6B-COMB.seq.*
5: /cgn2_6/ptodata/2/ina/PTCUS-COMB.seq.*
6: /cgn2_6/ptodata/2/ina/backfiles1.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	343	20.4	1238	2	US-08-414-657D-3
2	343	20.4	1238	4	US-09-135-080-3
3	340.6	20.3	924	2	US-08-414-657D-7
4	340.6	20.3	977	2	US-08-414-657D-1
5	340.6	20.3	977	4	US-09-135-080-1
6	340.6	20.3	1014	2	US-08-414-657D-5
7	340.6	20.3	1014	4	US-09-135-080-7
8	338.6	20.2	861	2	US-08-414-657D-9
9	338.6	20.2	912	2	US-08-414-657D-6
10	337.4	20.1	945	2	US-08-414-657D-8
11	333.8	19.9	861	2	US-08-414-657D-10
12	303.6	18.1	756	2	US-08-414-657D-17
13	298.2	17.8	756	2	US-08-414-657D-18
14	100	6.0	219	2	US-08-414-657D-11
15	95.2	5.7	219	2	US-08-414-657D-12
16	77.8	4.6	177	2	US-08-414-657D-13
17	77.8	4.6	177	2	US-08-414-657D-14
18	65.6	3.9	198	2	US-08-414-657D-15
19	63.4	3.8	198	2	US-08-414-657D-16
20	50.2	3.0	240	1	US-08-628-417-6
21	49.8	3.0	1048	4	US-09-489-847-38
22	48.6	2.9	1813	3	US-09-071-224-3
23	48.4	2.9	1117	3	US-09-247-373B-33
24	47.8	2.8	441	4	US-08-601-537-10
25	47.8	2.8	4121	4	US-08-601-537-9
26	47.6	2.8	2447	2	US-09-014-969-14
27	47.6	2.8	2674	4	US-09-817-180-1

28	47.4	2.8	1696	4	US-09-835-811-1	Sequence 1, Appl
29	46.8	2.8	2608	4	US-09-904-615-16	Sequence 16, Appl
30	46.6	2.8	569	4	US-09-461-325-44	Sequence 44, Appl
31	46.6	2.8	630	1	US-08-183-414E-1	Sequence 1, Appl
32	46.6	2.8	674	4	US-09-620-405B-465	Sequence 465, App
33	46.6	2.8	674	4	US-09-433-826B-465	Sequence 465, App
34	46.6	2.8	674	4	US-09-604-287A-465	Sequence 465, App
35	46.6	2.8	1411	3	US-08-964-127-5	Sequence 5, Appl
36	46.6	2.8	1411	4	US-09-496-692-5	Sequence 5, Appl
37	46.6	2.8	1411	4	US-10-000-273-5	Sequence 5, Appl
38	46.6	2.8	2846	4	US-09-996-243-230	Sequence 230, App
39	46.6	2.8	3275	4	US-09-370-838-151	Sequence 151, App
40	46.4	2.8	140	1	US-08-628-417-5	Sequence 5, Appl
41	46.4	2.8	578	4	US-09-602-877A-95	Sequence 95, Appl
42	46.4	2.8	1020	4	US-09-328-475C-43	Sequence 43, Appl
43	46.4	2.8	2246	4	US-09-363-708-3	Sequence 3, Appl
44	46.4	2.8	2246	4	US-09-083-587-3	Sequence 3, Appl
45	46.4	2.8	2280	3	US-08-813-150-1	Sequence 1, Appl

ALIGNMENTS

RESULT 1
US-08-414-657D-3
: Sequence 3, Application US/08414657D
: Patent No. 5861283
: GENERAL INFORMATION:
: APPLICANT: Levitt, Pat
: APPLICANT: Pimenta, Barea
: APPLICANT: Fischer, Itzhak
: APPLICANT: Zinkareva, Victoria
: TITLE OF INVENTION: Limbic System-Associated Membrane
: TITLE OF INVENTION: Protein and DNA
: NUMBER OF SEQUENCES: 60
: CORRESPONDENCE ADDRESS:
: ADDRESSEE: Dechert Price & Rhoads
: STREET: 997 Lenox Drive, Building 3, Suite 210
: CITY: Lawrenceville
: STATE: NJ
: COUNTRY: USA
: ZIP: 08543
: COMPUTER READABLE FORM:
: MEDIUM TYPE: Diskette
: COMPUTER: IBM Compatible
: OPERATING SYSTEM: DOS
: SOFTWARE: FastSeq for Windows Version 2.0
: CURRENT APPLICATION DATA:
: APPLICATION NUMBER: US/08/414,657D
: FILING DATE: 31-MAR-1995
: CLASSIFICATION: 435
: PRIOR APPLICATION DATA:
: APPLICATION NUMBER:
: FILING DATE:
: ATTORNEY/AGENT INFORMATION:
: NAME: Bloom, Allen
: REGISTRATION NUMBER: 29,135
: REFERENCE/DOCKET NUMBER: 317743-102
: TELECOMMUNICATION INFORMATION:
: TELEPHONE: 609-520-3214
: TELEFAX: 609-520-3259
: TELEX:
: INFORMATION FOR SEQ ID NO: 3:
: SEQUENCE CHARACTERISTICS:
: LENGTH: 1238 base pairs
: TYPE: nucleic acid
: STRANDEDNESS: double
: TOPOLOGY: linear
: FEATURE:
: NAME/KEY: Coding Sequence
: LOCATION: 56...1069
: OTHER INFORMATION:
US-08-414-657D-3

Query Match 20.4%; Score 343; DB 2; Length 1238;
Best Local Similarity 62.0%; Pred. No. 2,6e-80;
Matches 598; Conservative 0; Mismatches 355; Indels 12; Gaps 3;

QY 205 TCTCTTCCAAAGGAGTCCCGTGCAGCGAGATGCCACCTTCCCAAGAGTATGACAA 264
DB 121 TCTTCCACAGGAGTCCCGTGCAGCGTGGAT-----TTTAACCGAGCGACGACAA 174
QY 265 CGTACCGTCCGAGGAGGAGCGCCACCTCAGTGTCTTCCCAAGCGGTGAC 324
DB 175 CATCACCGTGCAGGAGGAGCGCCATCTCAGTGTGTGTGAGACAGAACTC 234
QY 325 CGGGTGGCTGGCTAAACCGCAGCACCTCTCTATGCTGGATGCAAGTGTGCT 384
DB 235 GAAAGTGGCTGTGAACCGCTCTGGCATCATCTTCGCTGGACACAGTGGTCT 294
QY 385 GGATCTCTCGGTGCTCTGAGCAACACCCAGCGAGTACAGTGTGCTGACAA 444
DB 295 GGACCTCGGTGAGCTGGAGAACCCATGCTGTGATACAGCTCCGAATCCGAA 354
QY 445 CGTGATGTATGAGGAGGCGCTTACCTGCTCGTGGAGACAGACCAACCCAAA 504
DB 355 GGTGGATGTATGATGAGGATCTACATGCTCAGTTCAGACAGCATGAGCCAA 414
QY 505 GACCTGAGGCTCCAGCTATGTGCAAGTATCTCCAAAATTTGAGAGTTCCTTCA 564
DB 415 GACCTCAAGTTACTTGTATGTGACAAAGTTCACCAAGATCTCCAACTCTCT 474
QY 565 TATCTCATTAATGAAGGAAATATAGCTCAGCTGATAGCACTATCCACCTA 624
DB 475 TGTCACTGTGAATGAGCGCAGCAATGTAACTGTGTGATGCGCAATGGGCGCT 534
QY 625 GCCTACAGGTTACTTGGAGACACATCTCTCCAAAGCGTGTGCTTTGTAGTGA 684
DB 535 ACCTGTATCAGCTGGAGACACCTTACACCTTGAAGAGAAATTTGAAGAGAA 594
QY 685 ATACTTGAATTCAGGCGATCACCGGAGAGTACAGGAGTACAGTGTGAGTGC 744
DB 595 ATACTGTAGATCTTAGGCGATCACGAGGAACTAGTCAAGCAATATGAGTGA 654
QY 745 CAATGAGTGGCGCGCGCGTACGAGAGTAAAGTCAAGTCAAGTATCCACCTA 804
DB 655 CAACGAGTCTCTCGCGGATGTCAACAAAGTCAAGTCACTGTGAATTCACCCAC 714
QY 805 CATTTCAAGAGCAAGGTACAGGTGTCCTCGTGGACAAAGGAGGACACTGAG 864
DB 715 CATCACAGTCTAAGAGCAATGAAGCCACACAGGACGACAGCTTCCCTCAAT 774
QY 865 AGCTCAGAGTCCCTCAGCAGAAATTCAGTGTACAGGATGACAAAGACTGATGA 924
DB 775 ASCCTCAGCGTCCCTGACCTGACTTTGAGTGTACCGGATGACACAG---GATA 831
QY 925 AGGAAGAAAGGAGTGAAGTGGAAACAGACCTTCTCTCAAAATCATCTTTCAA 984
DB 832 CAGTGAAGAGGCTTGAGATTAAGAGCACTAGAGGCGAGTCTCTCTGAGGTGAC 891
QY 985 TGTCTCTCAACATGATATGGGAATACACTTGGTGGCTTCCAAAGTGGGCGCAC 1044
DB 892 CGTCACTGAGGAACACTACGGCAACTATACCTGTGTGGCTGCCAAAGTCCGG 951
QY 1045 CAATGCGAGCATCATCTATTTGGTCCAGGCGCGTACGAGGTGAGCAACGGAC 1104
DB 952 CAATGCGAGCATCATCTATTTTCAGACCCGGGTGCGGTGAG---AGGAATCA 1008
QY 1105 GAGGAGGAGGCTGGCTGCTGCTGCTCTCTTCTGCTGTGACCTGCTCTCAAT 1164
DB 1009 CAGTCTGGCGTACCACTGTGCTGCTGCTGAGCGTCCCTGCTTCTGCTCTCA 1068
QY 1165 TTGAT 1169
DB 1069 TTAAT 1073

RESULT 2
US-09-135-080-3
Sequence 3; Application US/09135080
Patent No. 6423827
GENERAL INFORMATION:
APPLICANT: Levitt, Pat R.
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: GA
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/135,080
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-620-3214
TELEFAX: 609-620-3259
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1238 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 56-1069
OTHER INFORMATION:
US-09-135-080-3

Query Match 20.4%; Score 343; DB 4; Length 1238;
Best Local Similarity 62.0%; Pred. No. 2,6e-80;
Matches 598; Conservative 0; Mismatches 355; Indels 12; Gaps 3;

QY 205 TCTTTCACAGGAGTCCCGTGCAGCGAGATGCCACCTTCCCAAGAGTATGACAA 264
DB 121 TCTTTCACAGGAGTCCCGTGCAGCGTGGAT-----TTTAACCGAGCGACGACAA 174
QY 265 CGTACCGTCCGAGGAGGAGCGCCACCTCAGTGTGCTGAGCAACCGCGGTGAC 324
DB 175 CATCACCGTGCAGGAGGAGCGCCATCTCAGTGTGTGAGAGCAAGAACTC 234
QY 325 CGGGTGGCTGGCTAAACCGCAGCACCTCTCTATGCTGGATGCAAGTGTGCT 384
DB 235 GAAAGTGGCTGTGAACCGCTCTGGCATCATCTTCGCTGGACAGCAAGTGTCT 294
QY 385 GGATCTCTCGGTGCTCTGAGCAACACCCAGCGAGTACAGTGTGCTGACAA 444
DB 295 GGACCTCGGTGAGCTGGAGAACCCATGCTGTGATACAGCTCCGAATCCGAA 354
QY 445 CGTGATGTATGAGGAGGCGCTTACACCTGCTGCTGAGCAACAGCAACCCAAA 504

QY 805 CATTTCAGAGCAAGGGTACAGGTGTCCTCCCTGGGACAAAGGGGACACTGCTGTGA 864
DB 639 TATCAGAGCAATCCAGAGCAATGAAGCCACACAGGAGGACCAAGCTTCACTCAATATGTA 698
QY 865 AGCCTCAGCAGTCCCTCAGCAGATTCAGTGGTACAGGATGACAAAGACTGATTGA 924
DB 699 GGCTCGGAGTGGCTGACCTGACTTTGAGTGGTACCGGATGACACTAG---GATAAA 755
QY 925 AGGAAAGAAAGGGTGAAGTGGAAACAGACCTTTCCTCTCAAAACTCATCTTCTCAA 984
DB 756 TAGTGCAATGGCTTGAGATTGAAGACACAGGAGGCGGCTTCCCTGACGGTGACCAA 815
QY 985 TGTCTCTGAACATGACTATGGGAACCTACACTTGGCTGGCTCCCAACAAAGTGGGCCACAC 1044
DB 816 CGTCACTGAGGAGCACTACGCAACTACACCTGTGTGGCTGCCCAACAAAGCTGGGGTCA 875
QY 1045 CAATGCCAGCATCATGCTATTGTTGTCACAGCGCGCTCAGCG 1085
DB 876 CAATGCCAGCTAGTCTTTTCAGACCTGGGTGCTGAGAG 916

RESULT 4

US-08-414-657D-1
; Sequence 1, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414, 657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 1:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 977 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE:
; NAME/KEY: Coding Sequence
; LOCATION: 2..976
; OTHER INFORMATION:
US-08-414-657D-1

Query Match 20.3%; Score 340.6; DB 2; Length 977;
Best Local Similarity 63.3%; Pred. No. 9.8e-80;
Matches 558; Conservative 0; Mismatches 314; Indels 9; Gaps 2;
QY 205 TCTCTTCCAAAGAGTCCCGTCCGCGAGGAGATGCCACCTTCCCTCCCAAGAGTATGGACAA 264
DB 46 TCTTCCACAGGACTCCCTGTTTCGAGCGTGGAT-----TTTAAACCGAGCAGCGACAA 99
QY 265 CGTCAAGGTCGGCGAGGGGAGAGCGCCACCTCAGGTGACGACTATTATGACAAACCGGGTCA 324
DB 100 CATCACCTGAGGCGAGGGGACACAGCATCTCCTCAGGTGCTTTAGAGACAAAGAACTC 159
QY 325 CCGGTGCTGCTGGCTAAACCGCAGCAGCACTCTCTATGCTGGGAATGACAAAGTGGTGCCT 384
DB 160 AAAGTGGCTGGTTGAACCGTCTGTCATCATTTTTGCTGGACATGACAAAGTGGTCTCT 219
QY 385 GGATCCTCGGTGCTCTTCTGCAACACCCCAACGACGATACAGCATGAGATCCAGAA 444
DB 220 GGACCCAGGGTTGAGCTGGAGAACGCCATTCTCTGGAATACAGCTCCGATCCAGAA 279
QY 445 CGTGATGTATGACAGAGGCGCTTACACCTGCTCGGTGCGAGACAGACACACCACAA 504
DB 280 GGTGATGTCTATGATGAGGTTCTCTACCTTCTCTAGTTCAGACACAGCATGAGCCCA 339
QY 505 GACCTTAGGTCCACTCATTTGTCAGATATCTCCCAAAATTTAGAGATTTCTTCTGAGA 564
DB 340 GACCTCCCAAGTTTACTTGTATGATACAAAGTCCCAACAGATCTCCCAATATCTCTCG 399
QY 565 TATCTCCATTAATGAAGGGAACAATATTAGCTTCACTGATAGCAACTGTTAGACAGCA 624
DB 400 TGTCACTGTGAATGAGGCGAGCAAGCTGCTGCTGCTGATGCGCAATGAGCGCTCTGA 459
QY 625 GCCTACGTTACTTGGAGACACATCTCTCCCAAGCGGTTGGCTTTGTGAGTGAAGACGA 684
DB 460 ACCTGTTATACCTGGAGACACCTTTACACCACTGGAAGGGAATTTGAAGGAGAGAAGA 519
QY 685 ATACTTGGAAATTCAGGGCATCACCGGAGCAGTACAGGGGACTACAGGTGCTGCTC 744
DB 520 ATATCTGGAGATCTTGGCATCACCAGGAGCAGTACAGCAATATGAGTCAAAAGTGC 579
QY 745 CAATGACGTGGCGCGCTGTTGTCAGGAGATGAAAGTCACTGCACTGTAAGTCAACCA 804
DB 580 CAACGAGTCTCTCGCGGAGTCAAAAGTCAAGTCACTGTAAGTCACTGTAAGTCAAC 639
QY 805 CATTTCAAGCAAGGGTACAGGTGCTCCCGTGGGACAAAGGGGACACTGCTGTA 864
DB 640 TATCAGAGATCCAGAGCAATGAAGCCACACAGCAGCAGCAAGCTTCACTCAATGTGA 699
QY 865 AGCCTCAGCAGTCCCTCAGCAGATTCAGTGGTACAGGATGACAAAGACTGATGTA 924
DB 700 GGCTCGGAGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 756
QY 925 AGGAAAGAAAGGGTGAAGTGGAAACAGACCTTCTTCTCAAAACTCATCTTCTTCAA 984
DB 757 TAGTGCCCAATGGCTTGAGATTGAAGACACAGGAGGCGGCTTCTTCTGACGGTGACAA 816
QY 985 TGTCTCTGAACATGACTATGGGAACCTACACTTGGCTGGCTCCCAACAAAGTGGGCCACAC 1044
DB 817 CGTCACTGAGGAGCACTACGCAACTACACCTGTGTGGCTGCCCAACAAAGCTGGGGTCA 876
QY 1045 CAATGCCAGCATCATGCTATTGTTGTCACAGCGCGCTCAGCG 1085
DB 877 CAATGCCAGCTAGTCTTTTCAGACCTGGGTGCTGAGAG 917

RESULT 5

US-09-135-080-1
; Sequence 1, Application US/09135080
; Patent No. 6423827
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat R.
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak

TELEX:
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 1014 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...1014
OTHER INFORMATION:
US-08-414-657D-5

Query Match 20.3%; Score 340.6; DB 2; Length 1014;
Best Local Similarity 61.9%; Pred. No. 1e-79;
Matches 595; Conservative 0; Mismatches 354; Indels 12; Gaps 3;
QY 205 TCTCTTCCAGGAGTCCCGTCCGACGGAGATGCCACCTTCCCAAGCTATGGACAA 264
DB 66 TCTTCCACAGGAGTCCCGTCCGACGGAGATGCCACCTTCCCAAGCTATGGACAA 119
QY 265 CGTGAGGTCGCGGACGGGAGAGCGCCACCTTCAAGTGCATATTGACAAACGGGTAC 324
DB 120 CATCAGCGTGGGACGGGAGAGCGCCATCTCTCAGGTGTGTGGTAGAACAGAACTC 179
QY 325 CGGGTGGCTGGCTAAACCGCAGCACCCTCTCTATCTGGGAATGACAAGTGGTGGCT 384
DB 180 GAAAGTGGCTGGTGAACCGCTCTGGCATCATCTCTGGACACGACAAAGTGGTCTCT 239
QY 385 GGATCTCGCGTGGCTCTCTGAGCAACACCCAAACCGAGTACAGCATCGAGATCCAGAA 444
DB 240 GGACCTCGGGTGGAGTGGAGAACCCCATCTCTGGAATACAGCTCCGAAATCCAGAA 299
QY 445 CGTGAGTGTGTAGAGGAGGCGCTTACACCTCTCGGTGGAGACAGACAAACACCAAA 504
DB 300 GGTGGATGTCTATGATGAAGATCTTACATCTCTCAGTTCAGACAGCATGAGCCAA 359
QY 505 GACCTCTAGGGTCCACCTCATTTGCAAGTATCTCCCAAAATTTGAGAGATTTCTTCAGA 564
DB 360 GACCTCTCAAGTTTACTTGATTGTACAAGTTCCACCAAGATCTCCAACTCTCTCGA 419
QY 565 TATCTCATATATGAGGAGAACATATTAGCTCTACCTCTGATACAGTACAGTACAGCA 624
DB 420 TGTCTGTGATGAGGAGCAGCATGTAACTCTGCTGCTGATGCCAATGGCCCTTGA 479
QY 625 CCTACGGTTACTTGGACACACATCTCTCCAAAGGGTGGCTTTGTGAGTGAAGAGA 684
DB 480 ACCTGTATCCTTGAGACACCTTACACCATCTTGAAGAGATTTGAAGGAGAGAGA 539
QY 685 ATACTTGAATTCAGGACATCACCGGAGCAGTACAGGAGTACAGTGCAGTGCCTC 744
DB 540 ATATCTGGAGATCTTAGGATCCAGGAGAACAGTCAAGTCAAGTCAAGTCAAGTGC 599
QY 745 CAATGAGTGGCGGCGGCTGATCGGAGAGTAAAGTCAAGTCAAGTCAAGTCAAGTCA 804
DB 600 CAACGAGGTCCTCTCGGAGATGCAAAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCA 659
QY 805 CATTTCAAGGACCAAGGTTACAGGTGTCCCGGTGGGACAAAAGGGGACACCTGAGTGTGA 864
DB 660 CATCAGAGTCTAAGAGCAATGAAGCCACACAGGACGACAAAGCTTCCCTCAAAATGTA 719
QY 865 AGCTCTAGAGTCCCTCAGCAGAAATTCAGTGTGATGAGTACAGGATGACAAAGAGTATGA 924
DB 720 AGCTCTAGGCTGCTGACCTGACTTTGAGTGTGATGAGTACCGGATGACACAG 776
QY 925 AGGAAAGAGGGTGAAGTGAAGAACAGACCTTCTCTCAAACTCATCTCTCA 984
DB 777 CAGTGAACAGGCTTGAGATTAGACCTAGAGGCGCAGTCTCTCTCTCTCTCTCTCT 836
QY 985 TGTCTCTGACATGACTATGGAACTACTTCCGTGGCTTCCAGAGCTGGGCGAC 1044
DB 837 CGTCACTGAGGAACACTAGGCAACTATACCTGTGTGGCTGCCAACAAGCTCGGGCTCAC 896

QY 1045 CAATCCAGCATCATGCTATTGGTCCAGGCGCGTCCAGAGGTGAGCAACGGCAGTC 1104
DB 897 CAATCCAGCATCATGCTATTGGTCCAGGCGCGTCCAGAGGTGAGCAACGGCAGTC 953
QY 1105 GAGGAGGCGCGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1164
DB 954 CAGTGTGCGCGTACCACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1013
QY 1165 T 1165
DB 1014 T 1014

RESULT 7
US-09-135-080-7
Sequence 7, Application US/09135080
Patent No. 6423827
GENERAL INFORMATION:
APPLICANT: Levitt, Pat R.
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/135,080
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 09/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-620-3214
TELEFAX: 609-620-3259
TELEX:
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 1014 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...1014
OTHER INFORMATION:
US-09-135-080-7

Query Match 20.3%; Score 340.6; DB 4; Length 1014;
Best Local Similarity 61.9%; Pred. No. 1e-79;
Matches 595; Conservative 0; Mismatches 354; Indels 12; Gaps 3;
QY 205 TCTCTTCCAGGAGTCCCGTCCGACGGAGATGCCACCTTCCCAAGCTATGGACAA 264
DB 66 TCTTCCACAGGAGTCCCGTCCGACGGAGATGCCACCTTCCCAAGCTATGGACAA 119
QY 265 CGTGAGGTCGCGGACGGGAGAGCGCCACCTCAGTGTGACACTTTGACAAACGGGTAC 324

673 GAGTGAAGACGAATCTTGAATTCAGGCGCATACCCGGGAGCAGTCAGGGGACTACGA 732
 444 AGGAGAAGAAGATATCTGGAGATCTTGGCATACCCAGGAGCAGTCAGGCAATATGA 503
 733 GTGCAGTGGCTCCCAATGACGTGGCGGCCCTGGTACGGAGAGTAAAGTCAACGTGAA 792
 504 GTGCAAGTGGCCACAGAGGTCTCTCGGGGATGTCAACAATCAGGTCTCTGTA 563
 793 CTATCCACCATACATTTGAGAGCCAGGTCAGAGTGTCCCTGGGACAAAGGGGAC 852
 564 CTATCTCCCATATCACAGAAATCCAAAGCAATGAAGCCACACAGGAGCAAGCTTC 623
 853 ACTGCAGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAGGATGACAA 912
 624 ACTCAATGTGAGGCTCGGCAGTCCCTGACCTGACCTTGGTGGTACCGGAGTACAC 683
 913 AAGACTGATTGAAGAAAGAGGGGTGAAGTGGAAACAGACCTTTCCTCAAAACT 972
 684 TAG---GATAAATAGTCCCAATGGCTTGAGATTAAGAGCACGGAGGCGCTTCCT 740
 973 CATCTCTTCAATGTCTGAAATGACTATGGGAACATACACTTGGGTGGCTCCCAACA 1032
 741 GACGGTGACCAACGTCAGTGGAGGAGCACTACGGCAACTACACCTGTGTGGCTGCCA 800
 1033 GCTGGGCGCACCAATGCCAGCATCATGCTATTGGTCCAGGCGCGCTCAGCG 1085
 801 GCTGGGGGTCAACCAATGCCAGCTAGTCTCTTTTCAGACCTGGGTGGTGAGAG 853

RESULT 9
 US-08-414-657D-6
 ; Sequence 6, Application US/08414657D
 ; Patent No. 5861283
 ; GENERAL INFORMATION:
 ; APPLICANT: Levitt, Pat
 ; APPLICANT: Pimenta, Aurea
 ; APPLICANT: Fischer, Itzhak
 ; APPLICANT: Zhukareva, Victoria
 ; TITLE OF INVENTION: Limbic System-Associated Membrane
 ; NUMBER OF INVENTIONS: Protein and DNA
 ; NUMBER OF SEQUENCES: 60
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dechert Price & Rhoads
 ; STREET: 997 Lenox Drive, Building 3, Suite 210
 ; CITY: Lawrenceville
 ; STATE: NJ
 ; COUNTRY: USA
 ; ZIP: 08543
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; COMPUTER: IBM Compatible
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FASTSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/414,657D
 ; FILING DATE: 31-MAR-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bloom, Allen
 ; REGISTRATION NUMBER: 29,135
 ; REFERENCE/DOCKET NUMBER: 317743-102
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 609-520-3214
 ; TELEFAX: 609-520-3259
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 912 base pairs
 ; TYPE: nucleic acid

STRANDEDNESS: double
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1..912
 OTHER INFORMATION:
 US-08-414-657D-6
 Query Match
 Best Local Similarity: 63.7%; Pred. No. 3.2e-79;
 Matches 531; Conservative 0; Mismatches 299; Indels 3; Gaps 1;
 253 ACCTATGACAAAGTGCAGGTCCGGCAGGGGAGAGCGCCCTCAGGTGCACTATTGA 312
 24 AGGCACGACAAATCACCCTGAGCGAGGGGACACAGCATCTCTCAGGTGCTTAGA 83
 313 CAACCGGTCCACCGGTGGCTGCTTAAACCGCAGCACCATCTCTATGCTGGGAATGA 372
 84 AGACAAGAACTCAAAAGTGGCTGCTTGAACCGTCTCTGCGCATCATTTTCTGGACATGA 143
 373 CAAGTGTGGCTGATCTCTGCGTGGCTCTTCTGAGCAACACCCAAACGCACTACAGCAT 432
 144 CAAGTGTGGCTGATCTCTGCGTGGCTGCTTGAACCGTCTCTGCGCATCATTTTCTGGAAATACAGCCT 203
 433 CGAGATCCAGAACTGGATGTATGACGAGGGCCCTTACACCTGCTCGGTGCGACAGA 492
 204 CGAATCCAGAACTGGATGTATGATGAGGGTCTCTACACTGCTCAGTTCAGACACA 263
 493 CAACCAACCAAGACCTCTAGGTCCACCTCATTTGTGCAAGTATCTCCCAAAATTTGTA 552
 264 GCATGAGCCCAAGACCTCCCAAGTTTACTTGTGTAAGTCCCAAGTCCCAAGAGATCTCAA 323
 553 GATTTCTTCAGATATCTCCATTAATGAAGGAACAATATTAGCTCCTCAGCTAGCAAC 612
 324 TATCTCTCGGATGTCACTGTGAATGAGGCGCAAGCTGACTCTGCTGCTGCTGCGCAA 383
 613 TGTAGACGACAGCTACGCTTACTTTGAGACACATCTCCCAAGAGGCTTGTGCTTGT 672
 384 TGGCGTCTGAACTGTTATCACCTGCGACACCTTTACACCACTGGAAGGAATTTGA 443
 673 GAGTGAAGACGAATCTTGAATTCAGGCGCATACCCGGGAGCAGTCAGGGGACTACGA 732
 444 AGGAGAAGAAGATATCTGGAGATCTTGGCATACCCAGGAGCAGTCAGGCAATATGA 503
 733 GTGCAGTGGCTCCCAATGACGTGGCGGCCCTGGTACGGAGAGTAAAGTCAACGTGAA 792
 504 GTGCAAGTGGCCACAGAGGTCTCTCGGGGATGTCAACAATCAGGTCTCTGTA 563
 793 CTATCCACCATACATTTGAGAGCCAGGTCAGAGTGTCCCTGGGACAAAGGGGAC 852
 564 CTATCTCCCATATCACAGAAATCCAAAGCAATGAAGCCACACAGGAGCAAGCTTC 623
 853 ACTGCAGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAGGATGACAA 912
 624 ACTCAATGTGAGGCTCGGCAGTCCCTGACCTGACCTTGGTGGTACCGGAGTACAC 683
 913 AAGACTGATTGAAGAAAGAGGGGTGAAGTGGAAACAGACCTTTCCTCAAAACT 972
 684 TAG---GATAAATAGTCCCAATGGCTTGAGATTAAGAGCACGGAGGCGCTTCCT 740
 973 CATCTCTTCAATGTCTGAAATGACTATGGGAACATACACTTGGGTGGCTCCCAACA 1032
 741 GACGGTGACCAACGTCAGTGGAGGAGCACTACGGCAACTACACCTGTGTGGCTGCCA 800
 1033 GCTGGGCGCACCAATGCCAGCATCATGCTATTGGTCCAGGCGCGCTCAGCG 1085
 801 GCTGGGGGTCAACCAATGCCAGCTAGTCTCTTTTCAGACCTGGGTGGTGAGAG 853

RESULT 10
 US-08-414-657D-8
 ; Sequence 8, Application US/08414657D
 ; Patent No. 5861283

REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
INFORMATION FOR SEQ ID NO: 10:
SEQUENCE CHARACTERISTICS:
LENGTH: 861 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..861
OTHER INFORMATION:
US-08-414-657D-10

Query Match 19.9%; Score 333.8; DB 2; Length 861;
Best Local Similarity 63.4%; Pred. No. 5.6e-78;
Matches 528; Conservative 0; Mismatches 302; Indels 3; Gaps 1;

QY 253 AGCTATGACAAACGTCACGTCGCGGAGGGGAGAGCGCCACCTCAGGTGCACATTTGA 312
DB 24 AGGCACGACAAACATCACCGTGAGGCGAGGGGACGCGCATCTCAGGTGTGTGTAGA 83
QY 313 CAACCGGGTCACCGGGTGGCTTGGCTTAACCGCAGCACCACCTCTCTATCTGCTGGGAATGA 372
DB 84 AGACAAGAACTCGAAAGTGGCTTGTGAACCGCTCTGSCATCATCTTCGCTGGACAGA 143
QY 373 CAAGTGTGCTGCTGATCTCGCTGCTCTCTGACACACACCCAAACGAGTACAGAT 432
DB 144 CAAGTGTCTGAGACCTCTCGGTTGAGCTGGGAAACCGCATCTCTGGAATACAGCT 203
QY 433 CGAGATCCAGACGTTGATGATGAGAGGGCCCTTACACCTGCTGCTGCTGACAGAGA 492
DB 204 CCGAATCCAGAGGTGGATGCTATGATGAAGGATCTTACACATGCTCAGTTCAGACACA 263
QY 493 CAACCCCAAGACCTCTAGGGTCCACCTCATTTGGAAGTATCTCCCAAAATTTGAGA 552
DB 264 GCATGAGCCCAAGACCTCTCAAGTTTACTTGATGTGACAAAGTTCACCAAAAGATTCCAA 323
QY 553 GATTTCTTCAGATATCTCCATTAATGAAGGAAACAAATATTAGCCTCACCTGTCATAGCAAC 612
DB 324 CATCTCTCGGATGTCATGTGAATGAGGCGACAAATGTAACCTTGCTGCTGATGCCAA 383
QY 613 TGGTAGACAGAGCCTAGGTTTACTTGGAGACACATCTCTCCAAAGCGTTGGCTTTGT 672
DB 384 TGGCGCCCTGAACCTTATCAGCTGGAGACACCTTACACCACTTGGAGAGAAATTTGA 443
QY 673 CAGTGAAGACGAATACCTTGAATTCAGGGCATCACCGGGAGCAGTCAGGGGACTAGA 732
DB 444 AGGAGAAGAAATATCTGGAGATCTTAGCATCACAGGGAACAGTCAGGCAAAATATGA 503
QY 733 GTGCAGTGCCTCAATGAGCGGCGCCGCTGTTGAGAGAGTAAAGTCAAGCTCAGCTGAA 792
DB 504 GTGCAAGGCTGCACAGAGTCTCTCCGGGATGTCACAAAGTCAAGTCACTGTGNA 563
QY 793 CTATCCACCATACATTTAGAGCCAGGATGATGATGATGATGATGATGATGATGATGATGAT 852
DB 564 CTATCCACCATACATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 623
QY 853 ACTGAGTGTGAAGCCTCAGCAGTCCCTTCAGAGAAATTCAGATGGTGTGATGATGATGATGAT 912
DB 624 CCTCAATGTGAAGCCTCAGGCGGCTGACCTGACCTTGAAGTGTGATGATGATGATGATGATGAT 683
QY 913 AAGACTGATTGAAGGAAAGGGGTGAAGTGAAGGAAAGAGACCTTCTCTCTCAAAAT 972
DB 684 CAG---GATAAAGTGAAGGAAAGGGCTTGAAGTGAAGGAAAGAGACCTTCTCTCTCAAAAT 740
QY 973 CATCTCTCAATGCTCTGAACATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1032
DB 741 GACGGTGACCAAGCTCTAGGAGACACTACGACCACTATACCTGTGTGCTGCTGCCAACA 800

QY 1033 GCTGGGCGACACCAATGCCAGCATCATCTATTGTTCCAGGCGGCTCAGCG 1085
DB 801 GCTGGGCGTCCACCAATGCCAGCATCTAGTCTCTTTTCAGACCCCGGTCGGTGAG 853

RESULT 12
US-08-414-657D-17
Sequence 17, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 756 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..756
OTHER INFORMATION:
US-08-414-657D-17

Query Match 18.1%; Score 303.6; DB 2; Length 756;
Best Local Similarity 63.5%; Pred. No. 4.4e-70;
Matches 461; Conservative 0; Mismatches 274; Indels 3; Gaps 1;

QY 281 GGGGAGAGCGCCACCCCTCAGGTGCATCTATTGACAAACCGGTCACCCGGGTGCGCTG 340
DB 1 GGGGACAGAGCATCTCTAGGTGCGTCTTAGAAGACAAAGAACTCAAAGGTGCGCTG 60
QY 341 AACCCGACAGCATCTCTATGCTGGGAATGACAAGTGGTCCCTGGATCCTCGGCTGTC 400
DB 61 AACCCGCTCTGGCATCATCTTTGCTGGACATGACAAGTGGTCTCTGGACCCAGCGGTGAG 120
QY 401 CTCTCTGACAAACCCCAACCGCAGTACAGCATCCAGATCCAGAACTGCTGTGTATGAC 460
DB 121 CTGGAGAAACCCCAATCTCTGGAATACAGCCTCCGAATCCAGAAAGTGGATGCTATGAT 180
QY 461 GAGGCGCCCTTACACCTGCTCGGTGCGAGACACAAACCCCAAGACCTCTAGGTGCCAC 520

181 GAGGGTCTTACACTGCTCAGTTCAGACACAGCATGAGCCAGACCTCCCAAGTTTAC 240
521 CTCATTGTCAAGTATCTCCAAAATTTGAGAGATTTCTTCAGATATCTCCATTAATGAA 580
241 TTGATCGTACAGTCCCAACCAAGATCTCCAATATCTCTCGGATGTCACTGTGAATGAG 300
581 GGAACAATATTAGCCTCACTGCTAGCACTGCTAGCACTGCTAGCACTGCTAGCTGCTAG 640
301 GGCAGCAAGTGTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
641 AGACATCTCTCCCAAGGGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 700
361 AGACATCTTACCACTGGAAGGATTTGAAGGAGAGAGATATCTGAGATCTT 420
701 GGCATCAGCGGGAGCTGAGGGAGTACGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 760
421 GGCATCAGCGGGAGCTGAGGGAGTATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 480
761 CCGTGTGAGGAGTAAAGGTACCGGTGAACTATCCATCAGTGTGCTGCTGCTGCTGCTGCT 820
481 GCGATGTCAACAGTCAAGGTCACTGTGAACTATCTCCCACTATCAGCAATCCCAAG 540
821 GGTACAGTGTCCCGGTGGACAAAGGGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 880
541 AGCAATGAAGCCAGCCAGACAGCAAGCTTCACTCAAAATGTGAGGCTTGGCGCTGCT 600
881 TCAGCAATTCAGTGTACAGGATGACAAAGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCT 940
601 GCACCTGACTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 657
941 AAGTGGAAACAGACCTTCTCTCAAACTCATCTTCTCAATCTCTGCTGCTGCTGCTGCTG 1000
658 GAGATTAAGACAGCAGGAGGCTGCTTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 717
1001 TATGGAACTACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1038
718 TAGGCAACTACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 755

RESULT 13

US-08-414-657D-18
; Sequence 18, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Lmbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08343
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen

REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 756 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...756
OTHER INFORMATION:
US-08-414-657D-18

Query Match

Best Local Similarity 63.0%; Pred. No. 1.2e-68;

Matches 478; Conservative. 0; Mismatches 278; Indels 3; Gaps 1;

281 GGGGAGAGCGCCACCTCAGGTGACATATTGACAACGGGTGCTCACCCTGGGTGGCTGCTA 340
1 GGGGAGAGCGCCACCTCAGGTGACATATTGACAACGGGTGCTCACCCTGGGTGGCTGCTA 60
341 AACCGCAGCAGCCTCCTCTATCTGCTGGAATGACAAGTGTGCTGCTGCTGCTGCTGCTG 400
61 AACCGCCTCTGGCATCATCTCTGCTGACACAGCAAGTGTCTCTGGACCTCGGGTTGAG 120
401 CTTCTGAGCAACACCCAAACGAGTACAGATCGAGATCCAGACGCTGGATGTGTATGAC 460
121 CTGGAGAAAGCCATCTCTGGAATACAGCTCCGAATCCAGAAGTGGATGTCTATGAT 180
461 GAGGCGCTTACACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 520
181 GAAGGATCCTACACATGCTCAGTTTCAGACACAGCATGAGCCCAAGCTCTCAAGTTTAC 240
521 CTCATTGTGCAAGTATCTCCCAAAATTTGAGAGATTTCTTCAGATATCTCCATTAAATGAA 580
241 TTGATTGTACAAGTTCCACCAAGATCTCCCAAGATCTCTCGATGTCTACTGTCAATGAG 300
581 GGGACAAATATTAGCTCCTCAGTACAGTACAGTACAGTACAGTACAGTACAGTACAGTAC 640
301 GCGCAATCTAACCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 360
641 AGACATCTCTCCCAAGCGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 700
361 AGACATCTTACACCTTGGAGAGAAATTTGAAGGAGAGAGAAATATCTGGAGATCTTA 420
701 GGCATCAGCGGGAGCAGTACAGGAGTACAGTACAGTACAGTACAGTACAGTACAGTACAG 760
421 GGCATCAGCGGGAGCAGTACAGGAGTATGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 480
761 CCGTGTGAGGAGTAAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 820
481 GCGGATGTCAACCAAGTCAAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 540
821 GGTACAGTGTCCCGGTGGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 880
541 AGCAATGAAGCCACACAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 600
881 TCAGCAATTCAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 940
601 GCACCTGACTTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 657
941 AAGTGGAAACAGACCTTCTCTCAAACTCATCTTCTCAATCTCTGCTGCTGCTGCTGCTG 1000
658 GAGATTAAGCACTGAGGCGGAGTCTCTCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 717
1001 TATGGAACTACACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1039
718 TAGGCAACTATACCTGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 756

RESULT 14
US-08-414-657D-11
Sequence 11, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414, 657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 11:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..219
OTHER INFORMATION:
US-08-414-657D-11

Query Match 6.0%; Score 100; DB 2; Length 219;
Best Local Similarity 67.0%; Pred. No. 6.3e-17;
Matches 142; Conservative 0; Mismatches 70; Indels 0; Gaps 0;
QY 281 GGGGAGCGCCACCCCTCAGTGCACACTATTGACACCGGGTCACCGGGTGGCGCTGCTA 340
DB 1 GGGGACACAGCCATCCCTCAGTGGTCTTAGAAGACAGAACTCAAGTGGCGCTGGTG 60
QY 341 AACCGGACGACCATCTCTATGCTGGGATGACAGTGGTGGCTGATCTCGCGTGGTC 400
DB 61 AACCGTCTGGCATCATTTTGGCTGGGATGACAAAGTGGTCTCTGGACCCCGGGTTGAG 120
QY 401 CTCTCTGAGCAACCCAAAGCCAGTACAGATCCAGATCCAGACGTTGGATGTGTATGAC 460
DB 121 CTGGAGAAAGCGCATCTCTGGATATACAGCTCCGAAATCCAGAAAGTGGATGTCTATGAT 180
QY 461 GAGGGCCCTTACACCTGCTCGGTGCAGACAGA 492
DB 181 GAGGGTCTCTACACTTGTCTCAGTTCAGACACA 212

RESULT 15
US-08-414-657D-12
Sequence 12, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414, 657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 12:
SEQUENCE CHARACTERISTICS:
LENGTH: 219 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..219
OTHER INFORMATION:
US-08-414-657D-12

Query Match 5.7%; Score 95.2; DB 2; Length 219;
Best Local Similarity 65.6%; Pred. No. 1.1e-15;
Matches 139; Conservative 0; Mismatches 73; Indels 0; Gaps 0;
QY 281 GGGGAGCGCCACCCCTCAGTGCACACTATTGACACCGGGTCACCGGGTGGCGCTGCTA 340
DB 1 GGGGACACAGCCATCCCTCAGTGGTCTTAGAAGACAGAACTCAAGTGGCGCTGGTG 60
QY 341 AACCGGACGACCATCTCTATGCTGGGATGACAGTGGTGGCTGATCTCGCGTGGTC 400
DB 61 AACCGTCTGGCATCATTTTGGCTGGGATGACAAAGTGGTCTCTGGACCCCGGGTTGAG 120
QY 401 CTCTCTGAGCAACCCAAAGCCAGTACAGATCCAGATCCAGACGTTGGATGTGTATGAC 460
DB 121 CTGGAGAAAGCGCATCTCTGGATATACAGCTCCGAAATCCAGAAAGTGGATGTCTATGAT 180
QY 461 GAGGGCCCTTACACCTGCTCGGTGCAGACAGA 492
DB 181 GAGGATCTCTACACTGCTCAGTTCAGACACA 212

Thu Sep 11 16:20:48 2003

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Page 13

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Job time : 157 secs

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OM nucleic - nucleic search, using sw model

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(without alignments)
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Title: US-10-017-084A-522
Perfect score: 1679
Sequence: 1 gttgtctcttcagcaaac.....ataaaagagcaaaaaa 1679

Scoring table: IDENTITY_NUC
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Searched: 1632420 seqs, 1213878141 residues

Total number of hits satisfying chosen parameters: 3264840

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications NA.*

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3: /cgn2_6/ptodata/2/pubna/US05_NEW_PUB.seq.*
4: /cgn2_6/ptodata/2/pubna/US06_PUBCOMB.seq.*
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11: /cgn2_6/ptodata/2/pubna/US09C_PUBCOMB.seq.*
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15: /cgn2_6/ptodata/2/pubna/US10_NEW_PUB.seq.*
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17: /cgn2_6/ptodata/2/pubna/US60_PUBCOMB.seq.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	ID	Description
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2	1679	100.0	1679	10	US-09-978-697-522
3	1679	100.0	1679	10	US-09-978-192A-522
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ALIGNMENTS

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Sequence 522, Application US/09978295A

Patent No. US20020156006A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Iivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same
FILE REFERENCE: P2630P1C11
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PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30

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APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Oiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillay, Kenneth J.
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 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 TITLE OF INVENTION: Acids Encoding the Same
 FILE REFERENCE: P2630P1C37
 CURRENT APPLICATION NUMBER: US/09/978,697
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 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
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Patent No US2002017553A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
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APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gottisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
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APPLICANT: Gurney, Austin L.
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APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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1021	QY	GGCTCCACACAGCTGGCCACACACCAANTCCAGNCATCTGCTATTGGTCCAGGGCCGT	1080
1021	DB	GGCTCCACACAGCTGGCCACACCAANTCCAGNCATCTGCTATTGGTCCAGGGCCGT	1080
1081	QY	CAGCGAGGTGACCAACGGCAGCTGAGAGAGGCGAGCTGGCTCTGGCTGCTGCCCTCTCT	1140
1081	DB	CAGCGAGGTGACCAACGGCAGCTGAGAGAGGCGAGCTGGCTCTGGCTGCTGCCCTCTCT	1140
1141	QY	GGTCTTGCACCTGCTCTCAAAATTTTGATGTGAGTGCCACTTCCCACACCCGGGAAAGGCT	1200
1141	DB	GGTCTTGCACCTGCTCTCAAAATTTTGATGTGAGTGCCACTTCCCACACCCGGGAAAGGCT	1200
1201	QY	CGCGCCACACACACACCAACACACACGCAATTGGCAACACCGACAGCAACCAATCAGATA	1260
1201	DB	CGCGCCACACACACACCAACACACACGCAATTGGCAACACCGACAGCAACCAATCAGATA	1260
1261	QY	TATACAAATGAAATTTAGAGAAACACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAAC	1320
1261	DB	TATACAAATGAAATTTAGAGAAACACACAGCCTCATGGGACAGAAATTTGAGGAGGGGAAC	1320
1321	QY	AAAGAATACTTTGGGGGGAAAGAGTTTAAATAAGAAATTTAGAAATTCGCTTTCAGATA	1380
1321	DB	AAAGAATACTTTGGGGGGAAAGAGTTTAAATAAGAAATTTAGAAATTCGCTTTCAGATA	1380
1381	QY	TTTAGGTACAATGGAGTTTCTTTTTCCCAACGGGAAGAACACAGACACACCCGGCTTGGGA	1440
1381	DB	TTTAGGTACAATGGAGTTTCTTTTTCCCAACGGGAAGAACACAGACACACCCGGCTTGGGA	1440
1441	QY	CCCACTGCAAGTCGCATCGTGCAACCTCTTTGGTGCCAGTGTGGGCAAGGGGTGAGCCTC	1500
1441	DB	CCCACTGCAAGTCGCATCGTGCAACCTCTTTGGTGCCAGTGTGGGCAAGGGGTGAGCCTC	1500
1501	QY	TCCTGCCACAGAGTGCCCCACGTCGGAACATTTCTGGAGCTGGCCATCCCAAAATTCATCA	1560
1501	DB	TCCTGCCACAGAGTGCCCCACGTCGGAACATTTCTGGAGCTGGCCATCCCAAAATTCATCA	1560
1561	QY	GTCCATAGAGACGAACAGAAATGAGACTTTCGGGCCAAGGCTGGCGCTCGCGGGCACCTTGG	1620
1561	DB	GTCCATAGAGACGAACAGAAATGAGACTTTCGGGCCAAGGCTGGCGCTCGCGGGCACCTTGG	1620
1621	QY	GTAGACTGTGCCACACAGGGCTGTGTTGTGAACCTGTAATTAATAAGAGCAAAAAAAA	1679
1621	DB	GTAGACTGTGCCACACAGGGCTGTGTTGTGAACCTGTAATTAATAAGAGCAAAAAAAA	1679

RESULT 4

US-99-939-932A-522

Sequence 522, Application US/0999832A

Application No. US20020192706A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Gertsitsen, Vary E.

APPLICANT: Goddard, Audrey

APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Kijavich, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann

APPLICANT: Shelton, David L.

OY 601 CTGCTAGCACTGGTACAGAGCCTACGGTTACTTGGAGACACATCTCTCCCAAGC 660
DB 601 CTGCTAGCACTGGTACAGAGCCTACGGTTACTTGGAGACACATCTCTCCCAAGC 660
OY 661 GGTTCGCTTGTGAGTGAAGACGAATTTGGAATTCAGGCGATCACCCGGGAGCAGTC 720
DB 661 GGTTCGCTTGTGAGTGAAGACGAATTTGGAATTCAGGCGATCACCCGGGAGCAGTC 720
OY 721 AGGCGACTACGAGTGCAGTGCCTCCATGACGTGGCGCGCGCGTGTGACGGAGATAA 780
DB 721 AGGCGACTACGAGTGCAGTGCCTCCATGACGTGGCGCGCGCGTGTGACGGAGATAA 780
OY 781 GGTCAACGTCAGTATTCACACATATTCAGAGCCAAAGGCTACAGTGTCCCGCTGG 840
DB 781 GGTCAACGTCAGTATTCACACATATTCAGAGCCAAAGGCTACAGTGTCCCGCTGG 840
OY 841 ACAAGGCGACACTGCAGTGTGAAGCCTCAGCAGTCCCGCTCAGCAGATTCAGTGGTA 900
DB 841 ACAAGGCGACACTGCAGTGTGAAGCCTCAGCAGTCCCGCTCAGCAGATTCAGTGGTA 900
OY 901 CAAGGATGACAAAGACTGATTGAAGGAAAGAGGGGTGAAGTGGAAACAGACCTTT 960
DB 901 CAAGGATGACAAAGACTGATTGAAGGAAAGAGGGGTGAAGTGGAAACAGACCTTT 960
OY 961 CTTCTCAAACTCATCTTCTCAATGTCTGACATGATGCGATGCGGAACTACATTCGCT 1020
DB 961 CTTCTCAAACTCATCTTCTCAATGTCTGACATGATGCGATGCGGAACTACATTCGCT 1020
OY 1021 GCGCTCCAAAGCTGGGCGACACCAATGCCAGATCATGCTATTGTCGAGCGCGCT 1080
DB 1021 GCGCTCCAAAGCTGGGCGACACCAATGCCAGATCATGCTATTGTCGAGCGCGCT 1080
OY 1081 CAGCAGTGAAGCAGGACGCTGAGGAGGCGAGTGTGCTGCTGCTGCTGCTTCT 1140
DB 1081 CAGCAGTGAAGCAGGACGCTGAGGAGGCGAGTGTGCTGCTGCTGCTGCTTCT 1140
OY 1141 GGTCTGACCTGCTTCTCAATTTTGTATGATGCTGCTGCTGCTGCTGCTGCTGCT 1200
DB 1141 GGTCTGACCTGCTTCTCAATTTTGTATGATGCTGCTGCTGCTGCTGCTGCTGCT 1200
OY 1201 GCGGCGACACACACACACACAGATGCGACACACACACACACACACACACACAT 1260
DB 1201 GCGGCGACACACACACACACAGATGCGACACACACACACACACACACACACAT 1260
OY 1261 TATACAAATGAATTTGAAGAAACACAGCCTCATGGAGCAAAATTTGAGGAGGGAAC 1320
DB 1261 TATACAAATGAATTTGAAGAAACACAGCCTCATGGAGCAAAATTTGAGGAGGGAAC 1320
OY 1321 AAAGATACCTTGGGGGAAAGAGTTTAAAGAAAGATTTGAATTTGCTTGCAGATA 1380
DB 1321 AAAGATACCTTGGGGGAAAGAGTTTAAAGAAAGATTTGAATTTGCTTGCAGATA 1380
OY 1381 TTTAGTACATGAGTTTCTTTTCCCAAGGGAAGACACACACACACACACCGCTTGA 1440
DB 1381 TTTAGTACATGAGTTTCTTTTCCCAAGGGAAGACACACACACACACCGCTTGA 1440
OY 1441 CCACCTGACGCTGCTGAGACCTTCTGTCAGTGTGGGAGGCTGAGGCTGAGGCT 1500
DB 1441 CCACCTGACGCTGCTGAGACCTTCTGTCAGTGTGGGAGGCTGAGGCTGAGGCT 1500
OY 1501 TCTGCCACAGAGTCCCGGAGCAATTTCTGAGCTGCGCTGCGCTGCGCTGCGCTGCA 1560
DB 1501 TCTGCCACAGAGTCCCGGAGCAATTTCTGAGCTGCGCTGCGCTGCGCTGCGCTGCA 1560
OY 1561 GTCCATGAGAGCAACAGATGAGCTTCCCGGAGGCTGCGCTGCGCTGCGCTGCGCT 1620
DB 1561 GTCCATGAGAGCAACAGATGAGCTTCCCGGAGGCTGCGCTGCGCTGCGCTGCGCT 1620
OY 1621 GTAGCTGCGCAGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679
DB 1621 GTAGCTGCGCAGCAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 1679

RESULT 5
US-09-978-189-522
Sequence 522, Application US/09978189
Publication No. US20030040102A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deshoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fonng, Sherman
APPLICANT: Gao, Wei Qiang
APPLICANT: Gerstein, Hanseter
APPLICANT: Gottesman, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillen, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C7
CURRENT APPLICATION NUMBER: US/09/978,189
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311
PRIOR FILING DATE: 1997-11-13
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/077450
PRIOR FILING DATE: 1998-03-10
PRIOR APPLICATION NUMBER: 60/077632
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077641
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077649
PRIOR FILING DATE: 1998-03-11
PRIOR APPLICATION NUMBER: 60/077791
PRIOR FILING DATE: 1998-03-12
PRIOR APPLICATION NUMBER: 60/078004
PRIOR FILING DATE: 1998-03-13
PRIOR APPLICATION NUMBER: 60/078886
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078936
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078910
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/078939
PRIOR FILING DATE: 1998-03-20
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/079656
PRIOR FILING DATE: 1998-03-26
PRIOR APPLICATION NUMBER: 60/079664
PRIOR FILING DATE: 1998-03-27

Best Local Similarity 100.0%; Pred. No. 1.7e-150;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTQPKHNSISWAIFTGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
DB 1 MKTQPKHNSISWAIFTGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
QY 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQOYSIEIQNVVYDDEGPTCSVQTD 120
DB 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQOYSIEIQNVVYDDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFV 180
DB 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFV 180
QY 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYISEAKGTGVPVGQKGT 240
DB 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYISEAKGTGVPVGQKGT 240
QY 241 LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
DB 241 LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNGTSSRRAGCVWLLPLLVLLHLLKF 344
DB 301 LGHTNASIMLFGPGAVSEVSNGTSSRRAGCVWLLPLLVLLHLLKF 344

RESULT 7

US-09-978-585A-523
; Sequence 523, Application US/0978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC15
CURRENT APPLICATION NUMBER: US/09/978, 585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 523
LENGTH: 344
TYPE: PRT
ORGANISM: Homo sapiens

US-09-978-585A-523

Query Match 100.0%; Score 1806; DB 11; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.7e-150;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTQPKHNSISWAIFTGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
DB 1 MKTQPKHNSISWAIFTGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
QY 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQOYSIEIQNVVYDDEGPTCSVQTD 120
DB 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQOYSIEIQNVVYDDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFV 180
DB 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFV 180
QY 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYISEAKGTGVPVGQKGT 240
DB 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYISEAKGTGVPVGQKGT 240
QY 241 LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
DB 241 LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
QY 301 LGHTNASIMLFGPGAVSEVSNGTSSRRAGCVWLLPLLVLLHLLKF 344
DB 301 LGHTNASIMLFGPGAVSEVSNGTSSRRAGCVWLLPLLVLLHLLKF 344

RESULT 8

US-09-978-191A-523
; Sequence 523, Application US/09978191A
; Publication No. US20030050239A1
; GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630PIC14
CURRENT APPLICATION NUMBER: US/09/978,191A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/064249
PRIOR FILING DATE: 1997-11-03
PRIOR APPLICATION NUMBER: 60/065311

PRIOR FILING DATE: 1998-04-22
 PRIOR APPLICATION NUMBER: 60/082797
 PRIOR FILING DATE: 1998-04-22
 PRIOR APPLICATION NUMBER: 60/082796
 PRIOR FILING DATE: 1998-04-23
 PRIOR APPLICATION NUMBER: 60/083336
 PRIOR FILING DATE: 1998-04-27
 PRIOR APPLICATION NUMBER: 60/083322
 PRIOR FILING DATE: 1998-04-28
 PRIOR APPLICATION NUMBER: 60/083392
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083495
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083496
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083499
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083545
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083554
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083558
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083559
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083500
 PRIOR FILING DATE: 1998-04-29
 PRIOR APPLICATION NUMBER: 60/083742
 PRIOR FILING DATE: 1998-04-30
 PRIOR APPLICATION NUMBER: 60/084366
 PRIOR FILING DATE: 1998-05-05
 PRIOR APPLICATION NUMBER: 60/084414
 PRIOR FILING DATE: 1998-05-06
 PRIOR APPLICATION NUMBER: 60/084441
 PRIOR FILING DATE: 1998-05-06
 PRIOR APPLICATION NUMBER: 60/084637
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084639
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084640
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084598
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084600
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084627
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/084643
 PRIOR FILING DATE: 1998-05-07
 PRIOR APPLICATION NUMBER: 60/085339
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085338
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085323
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085582
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085700
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085689
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085579
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085580
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085573
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085704
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1806; DB 11; Length 344;
 Best Local Similarity 100.0%; Pred. No. 1.7e-150;

Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 Qy 1 MKTQPKMNSISWAIFTGLAALCLFQGVPPVRSQDATFFPKAMDNVTVRQGESATLRCTID 60
 Db 1 MKTQPKMNSISWAIFTGLAALCLFQGVPPVRSQDATFFPKAMDNVTVRQGESATLRCTID 60
 Qy 61 NRVTRVWLNRSTILYAGNDKWCILDPRVLLSNTQYSEIQNVVDVYDEGPTCSVQTD 120
 Db 61 NRVTRVWLNRSTILYAGNDKWCILDPRVLLSNTQYSEIQNVVDVYDEGPTCSVQTD 120
 Qy 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
 Db 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
 Qy 181 SEDEYLEIQITREQSDYECSSANDVAAPVVRVKVTYVNYPPYISEAKGTGVPVGOKGT 240
 Db 181 SEDEYLEIQITREQSDYECSSANDVAAPVVRVKVTYVNYPPYISEAKGTGVPVGOKGT 240
 Qy 241 LOCASAVPSAEFQWKDDKRLIEGKKGKVENRPPFLSKLIEFNVSEHDYGNVTCVASNK 300
 Db 241 LOCASAVPSAEFQWKDDKRLIEGKKGKVENRPPFLSKLIEFNVSEHDYGNVTCVASNK 300
 Qy 301 LGHTNASIMLFGPGAVSEVSNGTSSRACGVWLLPLLVHLHLKLF 344
 Db 301 LGHTNASIMLFGPGAVSEVSNGTSSRACGVWLLPLLVHLHLKLF 344

RESULT 6

US-09-978-608A-523
 ; Sequence 523, Application US/09978608A
 ; Publication No. US20030045462A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kijavini, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2630P1C22
 ; CURRENT APPLICATION NUMBER: US/09/978,608A
 ; CURRENT FILING DATE: 2001-10-16
 ; NUMBER OF SEQ ID NOS: 624
 ; Prior Application removed - See File Wrapper or Palm
 ; SEQ ID NO 523
 ; LENGTH: 344
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 US-09-978-608A-523

Query Match 100.0%; Score 1806; DB 11; Length 344;

OY 181 SEDEVLEIQTREOSGDYECASNDVAAPVVRVKVTYVNPPISEAKGTGVPVGOKGT 240
 Db 181 SEDEVLEIQTREOSGDYECASNDVAAPVVRVKVTYVNPPISEAKGTGVPVGOKGT 240
 OY 241 LOCASAVPSAEQWYKDKRIEKGKGVKVENRPLSKLIEFFNVSEHDYNTCVASNK 300
 Db 241 LOCASAVPSAEQWYKDKRIEKGKGVKVENRPLSKLIEFFNVSEHDYNTCVASNK 300
 OY 301 LGHTNASIMLFGGAVSEVSGTSSRRACGCVWLLPLVLVHLHLKF 344
 Db 301 LGHTNASIMLFGGAVSEVSGTSSRRACGCVWLLPLVLVHLHLKF 344

RESULT 5

US-09-189-189-523
 ; Sequence 523, Application US/09978189
 ; Publication No. US20030004102A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerlitsen, Mary E.
 ; APPLICANT: Goddard, Audrey J.
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Hiney, Auscine L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kijavini, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C7
 ; CURRENT APPLICATION NUMBER: US/09/978,189
 ; PRIOR FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: 60/062250
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/064249
 ; PRIOR FILING DATE: 1997-11-03
 ; PRIOR APPLICATION NUMBER: 60/065311
 ; PRIOR FILING DATE: 1997-11-13
 ; PRIOR APPLICATION NUMBER: 60/065364
 ; PRIOR FILING DATE: 1997-11-21
 ; PRIOR APPLICATION NUMBER: 60/077450
 ; PRIOR FILING DATE: 1998-03-10
 ; PRIOR APPLICATION NUMBER: 60/077632
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Query Match 100.0% Score 1806; DB 10; Length 344;
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 Db 61 NEVTRVWLARSTILYAGNDKWCCLDPVRLLSNTFOYISIEIONVDYDEGPYTCVSQTD 120
 Qy 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGEV 180
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Query Match 100.0%; Score 1806; DB 10; Length 344;
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 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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 DB 61 NRYTRVAVLNRSTILYAGNDKWCIDPRVLLSNTOTQYSTEIQNVVDYDEGYTCVQTD 120
 QY 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNISLTCIATGRPEPTVWRHISPKAVGFV 180
 DB 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNISLTCIATGRPEPTVWRHISPKAVGFV 180
 QY 181 SEDEYLETOGTRQSGDYECSSASNDVAAAPVVRVKKVTYVNPYPISEAKGTGVPVQKGT 240
 DB 181 SEDEYLETOGTRQSGDYECSSASNDVAAAPVVRVKKVTYVNPYPISEAKGTGVPVQKGT 240
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 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurley, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630PIC63
 ; CURRENT APPLICATION NUMBER: US/09/999,832A
 ; CURRENT FILING DATE: 2001-10-24
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APPLICANT: Fong, Sherman
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TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Nucleic Acids Encoding the Same
FILE REFERENCE: P2630P199
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;; PRIOR APPLICATION NUMBER: 60/084637
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084639
;; PRIOR FILING DATE: 1998-05-07

;; PRIOR APPLICATION NUMBER: 60/084640
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084598
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084600
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084627
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/084643
;; PRIOR FILING DATE: 1998-05-07
;; PRIOR APPLICATION NUMBER: 60/085339
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085338
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085323
;; PRIOR FILING DATE: 1998-05-13
;; PRIOR APPLICATION NUMBER: 60/085582
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085700
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085689
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085579
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085580
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085573
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0% Score 1806 DB 10 Length 344;
Best Local Similarity 100.0% Pred No 1 7e-150;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db 1 MKTQPKMNSISWALFTGLAALCLFQGVPRSDATFPKAMDNTVVRQGESATLRCTID 60
Qy 61 NRTVAVLNRSTILVAGNDKWCCLDPVRLSNTQTOYSIEIONVDYDEGPTCSVQTD 120
Db 61 NRTVAVLNRSTILVAGNDKWCCLDPVRLSNTQTOYSIEIONVDYDEGPTCSVQTD 120
Qy 121 NHPTSRVHLIVQSPKIVEISSDISINEGNISLTCIATGRPEPTVTRHISPKAVGFV 180
Db 121 NHPTSRVHLIVQSPKIVEISSDISINEGNISLTCIATGRPEPTVTRHISPKAVGFV 180
Qy 181 SEDEYLETOGITREQSGDYECASNDVAAPVVRVKVTYVNPYPYISEAKGTGVPVGOKGT 240
Db 181 SEDEYLETOGITREQSGDYECASNDVAAPVVRVKVTYVNPYPYISEAKGTGVPVGOKGT 240
Qy 241 LQCEASVPSAEQWYKDDKRLIEGKGVKVENRPFSLKLIFFNYSYHDYGNVTCVASNK 300
Db 241 LQCEASVPSAEQWYKDDKRLIEGKGVKVENRPFSLKLIFFNYSYHDYGNVTCVASNK 300
Qy 301 LCHTNASIMLFGPGAVSEVSNCTSRACGVWLLPLLVLLHLLKF 344
Db 301 LCHTNASIMLFGPGAVSEVSNCTSRACGVWLLPLLVLLHLLKF 344

RESULT 3

US-09-978-192A-523
; Sequence 523, Application US/05978192A
; Patent No. US20020177553A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen

PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085323
 PRIOR FILING DATE: 1998-05-13
 PRIOR APPLICATION NUMBER: 60/085582
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085700
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085689
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085579
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085580
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085573
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085704
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1806; DB 10; Length 344;
 Best Local Similarity 100.0%; Pred. No. 1.7e-150;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKTIOPKMHSISWAI	FTGLAALCLFQGV	PPVRS	GDATFPRK	MNDVTVRQ	GESATLR	CTID	60
DB	1	MKTIOPKMHSISWAI	FTGLAALCLFQGV	PPVRS	GDATFPRK	MNDVTVRQ	GESATLR	CTID	60
QY	61	NRTVAVLNSTLYAG	NKWCLOPRV	VLLSNT	OTOYSTE	IONVDVYD	EGPYTCS	VQTD	120
DB	61	NRTVAVLNSTLYAG	NKWCLOPRV	VLLSNT	OTOYSTE	IONVDVYD	EGPYTCS	VQTD	120
QY	121	NHPKTSRVHLIVQ	SPKIVEISS	DISINEG	NNISLT	CIATGREP	PTVTRH	ISPKAVGF	180
DB	121	NHPKTSRVHLIVQ	SPKIVEISS	DISINEG	NNISLT	CIATGREP	PTVTRH	ISPKAVGF	180
QY	181	SEDEVLEIQTITR	OSGDEYCSA	NDVAAPV	RRVKVT	VVNYPPY	ISEAKGTG	VPVGOKGT	240
DB	181	SEDEVLEIQTITR	OSGDEYCSA	NDVAAPV	RRVKVT	VVNYPPY	ISEAKGTG	VPVGOKGT	240
QY	241	LOCEASVPSEAF	OFYKDDKRL	IEGKGV	KVKNPF	SKLIFFNV	SEHDYGN	YTCVASNK	300
DB	241	LOCEASVPSEAF	OFYKDDKRL	IEGKGV	KVKNPF	SKLIFFNV	SEHDYGN	YTCVASNK	300
QY	301	LGHNTASIMLFG	PGAVSEV	NGTSRAC	GVWLL	LLVLLHLL	KLF	344	
DB	301	LGHNTASIMLFG	PGAVSEV	NGTSRAC	GVWLL	LLVLLHLL	KLF	344	

RESULT 2
 US-09-978-697-523
 Sequence 523, Application US/09978697
 Patent No. US20020169284A1
 GENERAL INFORMATION:
 APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gottschalk, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James;

APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2630P1C27
 CURRENT APPLICATION NUMBER: US/09/978,697
 CURRENT FILING DATE: 2001-10-16
 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/064249
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 PRIOR APPLICATION NUMBER: 60/080333

PRIOR FILING DATE: 2001-07-30
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 PRIOR APPLICATION NUMBER: 60/081049
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 PRIOR APPLICATION NUMBER: 60/081071
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081195
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/081203
 PRIOR FILING DATE: 1998-04-09

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 11, 2003, 03:05:03 : Search time 51 Seconds
(without alignments)
984.194 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQKHNISWAIPTGL.....RRACGVLLPLVLHLLKLF 344

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 541936 seqs, 145912426 residues

Total number of hits satisfying chosen parameters: 541936

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:
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2: /cgn2_6/ptodata/2/pubpa/PCT_NEW_PUB.pep.*
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18: /cgn2_6/ptodata/2/pubpa/US60_PUBCOMB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1806	100.0	344	10	US-09-978-295A-523
2	1806	100.0	344	10	US-09-978-697-523
3	1806	100.0	344	10	US-09-978-192A-523
4	1806	100.0	344	10	US-09-999-832A-523
5	1806	100.0	344	11	US-09-978-189-523
6	1806	100.0	344	11	US-09-978-608A-523
7	1806	100.0	344	11	US-09-978-585A-523
8	1806	100.0	344	11	US-09-978-431A-523
9	1806	100.0	344	11	US-09-978-109A-523
10	1806	100.0	344	11	US-09-999-833A-523
11	1806	100.0	344	11	US-09-978-564A-523
12	1806	100.0	344	11	US-09-981-915A-523
13	1806	100.0	344	11	US-09-978-824-523
14	1806	100.0	344	11	US-09-918-585A-523
15	1806	100.0	344	11	US-09-978-423A-523

16	1806	100.0	344	11	US-09-978-193A-523
17	1806	100.0	344	11	US-09-999-830A-523
18	1806	100.0	344	11	US-09-978-757A-523
19	1806	100.0	344	11	US-09-978-187B-523
20	1806	100.0	344	11	US-09-978-643A-523
21	1806	100.0	344	12	US-09-978-375A-523
22	1806	100.0	344	12	US-09-978-188A-523
23	1806	100.0	344	12	US-09-978-298A-523
24	1806	100.0	344	12	US-10-137-870-376
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26	1806	100.0	344	12	US-10-140-021-376
27	1806	100.0	344	12	US-10-140-474-376
28	1806	100.0	344	12	US-10-140-471-376
29	1806	100.0	344	12	US-10-140-807-376
30	1806	100.0	344	12	US-10-140-922-376
31	1806	100.0	344	12	US-10-140-924-376
32	1806	100.0	344	12	US-10-140-926-376
33	1806	100.0	344	12	US-10-141-598-376
34	1806	100.0	344	12	US-10-141-702-376
35	1806	100.0	344	12	US-10-141-704-376
36	1806	100.0	344	12	US-10-142-421-376
37	1806	100.0	344	12	US-10-142-432-376
38	1806	100.0	344	12	US-10-142-767-376
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41	1806	100.0	344	12	US-10-144-994-376
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45	1806	100.0	344	12	US-10-145-746-376

ALIGNMENTS

RESULT 1
US-09-978-295A-523
Sequence 523 Application US/09978295A
Accession No. US20020156006A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978, 295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585

CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:

INFORMATION FOR SEQ ID NO: 56:
SEQUENCE CHARACTERISTICS:
LENGTH: 252 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear

US-08-414-657D-56

Query Match 44.14; Score 796.5; DB 2; Length 252;
Best Local Similarity 56.94; Pred. No. 1.3e-71;
Matches 144; Conservative 50; Mismatches 58; Indels 1; Gaps 1;
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DB 1 GTAILRCVLEDKNSKVAVLNRSGIIFAGHDKWSDPRVLEKRHSLEYSLRIOKVDYD 60
QY 110 EGYTCSVQTDNHPKTSRHLIVQVSPKIVEISDISINEGNNISLTCTATGRPEPTVTW 169
DB 61 EGYTCSVQTDNHPKTSRHLIVQVSPKIVEISDISINEGNNISLTCTATGRPEPTVTW 120
QY 170 RHISPKRVGFVSEDEYLEIQITREQSGDYECASNDVAAPVRRVVKVTNYPPIYSEAK 229
DB 121 RHLTPGTGFEFESEDEYLEIQITREQSGDYECASNDVAAPVRRVVKVTNYPPIYSEAK 180
QY 230 GTGVPGVGGKGLQCEASAVPSAEFQYKDKRLTEGKGVKVENRPFSLKLIFFNVSEHD 289
DB 181 SNEATTGQASLKCEASAVPDPFEWYRDDTR-INSANGLEIKSTEGQSSLTAVNTVEEH 239
QY 290 YGNYTCVASKLG 302
DB 240 YGNYTCVASKLG 252

Search completed: September 11, 2003, 03:06:30
Job time : 36 secs

TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 CITY: Lawrenceville
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 48:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 287 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-414-657D-48

Query Match 49.18; Score 886.5; DB 2; Length 287;
 Best Local Similarity 56.6%; Pred. No. 1.6e-80;
 Matches 164; Conservative 57; Mismatches 66; Indels 3; Gaps 2;
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 DB 1 VRSD--FNRGTDNITVRQGDITAILRCVLEDKNSKVAWLNRSGIIFAGHDKWSDPRVL 58
 QY 91 LSNTOQYSIEIQNVVDYDEGPTCSVQTDNHPKTSRVHLIVQVSPKIVEISSDISINEG 150
 DB 59 EKRHSLVSLRIQKVDYDEGPTCSVQTDNHPKTSRVHLIVQVSPKIVEISSDISINEG 118
 QY 151 NNISLTCTATGRPEPTVTRHRSIPKAVGFVSEDEYLEIOGITREQSGDYECASNDVAAP 210
 DB 119 SNVTLCMANGRPEPTVTRHRSIPKAVGFVSEDEYLEIOGITREQSGDYECASNDVAAP 178
 QY 211 VVRKVTNVPYPISEAKGTGVPVQKGTLOCEASAVPSAEFQYKDDKRLIEGKGVK 270
 DB 179 DVKQKVTVNVPPTITESKNEATTGQASLKCEASAVPAPDFEWRDTR-INSANGLE 237
 QY 271 VENRPLSKLFFNVSEHDYGNVTCVASKNGLHTNASIMLFGPAVSEVS 320
 DB 238 IKSTEGQSSLTVTNVTTEHYGNYTCVAANKLGVTNASLVLFRPGSVRGIN 287

RESULT 14
 US-08-414-657D-49
 Sequence 49, Application US/08414657D
 Patent No. 5861283
 GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA

NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 CITY: Lawrenceville
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 49:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 287 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-414-657D-49

Query Match 49.08; Score 885.5; DB 2; Length 287;
 Best Local Similarity 56.6%; Pred. No. 2e-80;
 Matches 164; Conservative 57; Mismatches 66; Indels 3; Gaps 2;
 QY 31 VRSGDATPKAMDNVTVRQGESATLRCTIDNRVTRVAMLRSTILYAGNWKCLDPRVYL 90
 DB 1 VRSD--FNRGTDNITVRQGDITAILRCVLEDKNSKVAWLNRSGIIFAGHDKWSDPRVL 58
 QY 91 LSNTOQYSIEIQNVVDYDEGPTCSVQTDNHPKTSRVHLIVQVSPKIVEISSDISINEG 150
 DB 59 EKRHSLVSLRIQKVDYDEGPTCSVQTDNHPKTSRVHLIVQVSPKIVEISSDISINEG 118
 QY 151 NNISLTCTATGRPEPTVTRHRSIPKAVGFVSEDEYLEIOGITREQSGDYECASNDVAAP 210
 DB 119 SNVTLCMANGRPEPTVTRHRSIPKAVGFVSEDEYLEIOGITREQSGDYECASNDVAAP 178
 QY 211 VVRKVTNVPYPISEAKGTGVPVQKGTLOCEASAVPSAEFQYKDDKRLIEGKGVK 270
 DB 179 DVKQKVTVNVPPTITESKNEATTGQASLKCEASAVPAPDFEWRDTR-INSANGLE 237
 QY 271 VENRPLSKLFFNVSEHDYGNVTCVASKNGLHTNASIMLFGPAVSEVS 320
 DB 238 IKSTEGQSSLTVTNVTTEHYGNYTCVAANKLGVTNASLVLFRPGSVRGIN 287

RESULT 15
 US-08-414-657D-56
 Sequence 56, Application US/08414657D
 Patent No. 5861283
 GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60

STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 45:
SEQUENCE CHARACTERISTICS:
LENGTH: 310 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-45

Query Match 50.1%, Score 905; DB 2; Length 310;
Best Local Similarity 55.3%, Pred. No. 2.5e-82;
Matches 173; Conservative 59; Mismatches 77; Indels 4; Gaps 3;
QY 31 VRSGDATFPKAMDNVTVRQGESATLRCTIDNRVTRVAMLNKSTILYAGNDKWCCLDPRVL 90
DB 1 VRSD--FNRGDTNIVRQGDAILRCVVDKNSKVAMLNKSGIIFAGHDKWLDPRVL 58
QY 91 LSNTOQYSIEIQNVVDYDEGPTCSVOTDNHPKTSRVHLIVQVSPKIVEISSISNEG 150
DB 59 EKRHALEYSLRIQKVDYDEGPTCSVOTQHEPKTSQVLIQVPPKINSISDVTNEG 118
QY 151 NNISLTCTATGRPEPTVTRHISPKAVGVSEDEYLEIQITREOSGDYECASNDVAAP 210
DB 119 SNVTLVCMANGRPEPTVTRHILTPGREFEGEEYLEILGITRQSGKYCKAANEVSSA 178
QY 211 VVRVKVTNVPYPISEAKGTGVPVQKGTLOCEASAVPSAEFQYKDDKRLIEGKGVK 270
DB 179 DVQVKVTNVPYPTITESKSNKNEATTGROASLKCEASAVPAPDFEYRDDTR-INSANGLE 237
QY 271 VENRPFSLKLIFFNVSEHDYGNVTCVASKNKLGHNTASIMLFGGAVSEVSGTSSRAGCV 330
DB 238 IKSTEGQSSLTVTNVTBEEHGYNTCAANKLGVTNASTLVLFPRGVSVRGI-NGSISLAVPL 296
QY 331 WLLPLVLHLLK 343
DB 297 WLLAASLFLLSK 309

RESULT 12
US-08-414-657D-44
Sequence 44, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:

ADDRESSEE: Dechert, Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:

INFORMATION FOR SEQ ID NO: 44:
SEQUENCE CHARACTERISTICS:
LENGTH: 304 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-44

Query Match 49.9%, Score 902; DB 2; Length 304;
Best Local Similarity 55.5%, Pred. No. 4.8e-82;
Matches 171; Conservative 59; Mismatches 74; Indels 4; Gaps 3;
QY 31 VRSGDATFPKAMDNVTVRQGESATLRCTIDNRVTRVAMLNKSTILYAGNDKWCCLDPRVL 90
DB 1 VRSD--FNRGDTNIVRQGDAILRCVVDKNSKVAMLNKSGIIFAGHDKWLDPRVL 58
QY 91 LSNTOQYSIEIQNVVDYDEGPTCSVOTDNHPKTSRVHLIVQVSPKIVEISSISNEG 150
DB 59 EKRHALEYSLRIQKVDYDEGPTCSVOTQHEPKTSQVLIQVPPKINSISDVTNEG 118
QY 151 NNISLTCTATGRPEPTVTRHISPKAVGVSEDEYLEIQITREOSGDYECASNDVAAP 210
DB 119 SNVTLVCMANGRPEPTVTRHILTPGREFEGEEYLEILGITRQSGKYCKAANEVSSA 178
QY 211 VVRVKVTNVPYPISEAKGTGVPVQKGTLOCEASAVPSAEFQYKDDKRLIEGKGVK 270
DB 179 DVQVKVTNVPYPTITESKSNKNEATTGROASLKCEASAVPAPDFEYRDDTR-INSANGLE 237
QY 271 VENRPFSLKLIFFNVSEHDYGNVTCVASKNKLGHNTASIMLFGGAVSEVSGTSSRAGCV 330
DB 238 IKSTEGQSSLTVTNVTBEEHGYNTCAANKLGVTNASTLVLFPRGVSVRGI-NGSISLAVPL 296
QY 331 WLLPLVL 338
DB 297 WLLAASL 304

RESULT 13
US-08-414-657D-48
Sequence 48, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane

OPERATING SYSTEM: DOS
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 46:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 308 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-414-657D-46

Query Match 50.3%; Score 908; DB 2; Length 308;
 Best Local Similarity 56.3%; Pred. No. 1.2e-82;
 Matches 170; Conservative 58; Mismatches 70; Indels 4; Gaps 3;
 QY 20 LAALCLF-QGVPRSGDATFPKAMDNVTVRQGESATLRCTDNRVTRVAVLNRSSTILYAG 78
 Db 10 LRLCLLPTGLPVRSVD--FNRGTDNITVRGDTAILRCVLEDKSKVAVLNRSGLIFAG 67
 QY 79 NDKWCLDPRVLLSNTQYISIEIQNDVYDEGPTCSVQTDNHPKTSRVHLIVQVSPKI 138
 Db 68 HDAWSLDPRVLEKRSLSLEYSLRIQKVDYDEGPTCSVQTOHEPKTSQVYLIIVQVPPKI 127
 QY 139 VEISSDISINEGNISLTCIATGRPEPTVTRHISPKAVGFVSEDEYLEIQTREQSGD 198
 Db 128 SNISSDVTNVEGNSVTLVCMANGREPVTIWRHLTPLGRFEGEEYELEILGITREQSGK 187
 QY 199 YECASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVGOKGTLOCEASAVPSAEFOYKND 258
 Db 188 YEKAANEVSSADVQKVKTVNYPPTITESKNEATTGROASLKCEASAVPAPDFEYWRD 247
 QY 259 DKRLIEKGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKNGLGHTNASIMLFGPGAYSE 318
 Db 248 DTR-INSANGLEIKSTEGSSLTVTNVTTEHYGNTCVAAANKLGVTNASILVLRPGSVRG 306
 QY 319 VS 320
 Db 307 IN 308

RESULT 10
 US-08-414-657D-47
 Sequence 47, Application US/08414657D
 Patent No. 5861283
 GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543

COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FastSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 47:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 315 amino acids
 TYPE: amino acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 US-08-414-657D-47

Query Match 50.2%; Score 907; DB 2; Length 315;
 Best Local Similarity 56.3%; Pred. No. 1.6e-82;
 Matches 170; Conservative 58; Mismatches 70; Indels 4; Gaps 3;
 QY 20 LAALCLF-QGVPRSGDATFPKAMDNVTVRQGESATLRCTDNRVTRVAVLNRSSTILYAG 78
 Db 17 LRLCLLPTGLPVRSVD--FNRGTDNITVRGDTAILRCVLEDKSKVAVLNRSGLIFAG 74
 QY 79 NDKWCLDPRVLLSNTQYISIEIQNDVYDEGPTCSVQTDNHPKTSRVHLIVQVSPKI 138
 Db 75 HKWSLDPRVLEKRSLSLEYSLRIQKVDYDEGPTCSVQTOHEPKTSQVYLIIVQVPPKI 134
 QY 139 VEISSDISINEGNISLTCIATGRPEPTVTRHISPKAVGFVSEDEYLEIQTREQSGD 198
 Db 135 SNISSDVTNVEGNSVTLVCMANGREPVTIWRHLTPLGRFEGEEYELEILGITREQSGK 194
 QY 199 YECASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVGOKGTLOCEASAVPSAEFOYKND 258
 Db 195 YEKAANEVSSADVQKVKTVNYPPTITESKNEATTGROASLKCEASAVPAPDFEYWRD 254
 QY 259 DKRLIEKGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKNGLGHTNASIMLFGPGAYSE 318
 Db 255 DTR-INSANGLEIKSTEGSSLTVTNVTTEHYGNTCVAAANKLGVTNASILVLRPGSVRG 313
 QY 319 VS 320
 Db 314 IN 315

RESULT 11
 US-08-414-657D-45
 Sequence 45, Application US/08414657D
 Patent No. 5861283
 GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 CITY: Lawrenceville

```

PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/09135080
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA: 08/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 60:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-60

Query Match 51.1%; Score 923.5; DB 2; Length 338;
Best Local Similarity 55.1%; Pred No. 4e-84;
Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;

QY 20 LAALCLF-QGVPRSGDATFPKANDNTVROGESATLRCIDNRVTRVAMLNSTILYAG 78
DB 17 LRLCLPTGLPRVSD--FNRGDNITVRQDIALRCVLEDKNSKVAWLNRSGLIFAG 74
QY 79 NDKWCLDPRVLLSNTQYISIEIQNVYDEGPTCSVQTDNHPKTSRVHLIVQVSPKI 138
DB 75 HDKWSLDPRVLEKRSLSYLRQKVDYDEGPTCSVQTDNHPKTSRVHLIVQVPPKI 134
QY 139 VEISSDISINEGNISLTATGRPEPTVTRHISPKAVGFVSEDEYLEIQITREQSGD 198
DB 135 SNISSDVTVNEGSNTVLCMANGRPEPTVTRHISPKAVGFVSEDEYLEIQITREQSGK 194
QY 199 YECASNDVAAPVRRVKVTNYPPIYSEAKGTGVPVQKGTQCEASAVPSAEFQWYKD 258
DB 195 YECKAANEVSADYKQVKVTNYPPIYSEAKGTGVPVQKGTQCEASAVPSAEFQWYKD 254
QY 259 DKRLIEGKGVKVENPFLSKLIFFNVSEHDYGNVTCVASKNKGHTNASIMLFGPGAYSE 318
DB 255 DTR-INSANGLEIKSTEGQSSLTVMTEEHYGNVTCVAAKNKLGVTNASLVLFRPGSVRG 313
QY 319 VSGTSTRAGCVWLLPLLVHLLK 343
DB 314 I-NGSISLAVPLWLLAASLLCLSK 337

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RESULT 8
US-09-135-080-8
Sequence 8, Application US/09135080
Patent No. 6423827
GENERAL INFORMATION:
APPLICANT: Levitt, Pat R.
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:

```

```

APPLICATION NUMBER: US/09135080
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA: 08/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102A
TELEPHONE: 609-620-3214
TELEFAX: 609-620-3259
TELEX:
INFORMATION FOR SEQ ID NO: 8:
SEQUENCE CHARACTERISTICS:
LENGTH: 338 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-09-135-080-8

Query Match 51.1%; Score 923.5; DB 4; Length 338;
Best Local Similarity 55.1%; Pred No. 4e-84;
Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;

QY 20 LAALCLF-QGVPRSGDATFPKANDNTVROGESATLRCIDNRVTRVAMLNSTILYAG 78
DB 17 LRLCLPTGLPRVSD--FNRGDNITVRQDIALRCVLEDKNSKVAWLNRSGLIFAG 74
QY 79 NDKWCLDPRVLLSNTQYISIEIQNVYDEGPTCSVQTDNHPKTSRVHLIVQVSPKI 138
DB 75 HDKWSLDPRVLEKRSLSYLRQKVDYDEGPTCSVQTDNHPKTSRVHLIVQVPPKI 134
QY 139 VEISSDISINEGNISLTATGRPEPTVTRHISPKAVGFVSEDEYLEIQITREQSGD 198
DB 135 SNISSDVTVNEGSNTVLCMANGRPEPTVTRHISPKAVGFVSEDEYLEIQITREQSGK 194
QY 199 YECASNDVAAPVRRVKVTNYPPIYSEAKGTGVPVQKGTQCEASAVPSAEFQWYKD 258
DB 195 YECKAANEVSADYKQVKVTNYPPIYSEAKGTGVPVQKGTQCEASAVPSAEFQWYKD 254
QY 259 DKRLIEGKGVKVENPFLSKLIFFNVSEHDYGNVTCVASKNKGHTNASIMLFGPGAYSE 318
DB 255 DTR-INSANGLEIKSTEGQSSLTVMTEEHYGNVTCVAAKNKLGVTNASLVLFRPGSVRG 313
QY 319 VSGTSTRAGCVWLLPLLVHLLK 343
DB 314 I-NGSISLAVPLWLLAASLLCLSK 337

RESULT 9
US-08-414-657D-46
Sequence 46, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible

```

TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 41:
SEQUENCE CHARACTERISTICS:
LENGTH: 325 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-414-657D-41

Query Match 51.1%, Score 923.5, DB 2; Length 325;
Best Local Similarity 55.3%, Pred. No. 3.8e-84;
Matches 177; Conservative 60; Mismatches 78; Indels 5; Gaps 4;

QY 20 LAALCLF-QGVPRSGDATFPKAMDNVTVRQGESATLCTIDNRVTRVAVLNRSITLYAG 78
DB 10 LRLCLLPTGLPVRSD--FNRGTDNITVRQGDITAILRCVLEDKNSKVAVLNRSIGIIFAG 67
QY 79 NDKWCLDPVLLSNTQTOYSIEIQNVVDYDEGPTCSVOTDNHPTKSRVHLIVQVSPKI 138
DB 68 HDKWSLDPRVLEKRSLSYLRQKVDVDEGPTCSVOTQHEPKTSQVYLIVQVPEKI 127
QY 139 VEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGITREQSGD 198
DB 128 SNSSDVTNVEGNSVTLVCMANGRPVITWRHLPTTGREFEGEEYLEILGITREQSGK 187
QY 199 YECASNDVAAPVRRVKVTNYPPIYISEAKGTGVPVQKGTQCEASAVPSAEFQWKD 258
DB 188 YECCAANEVSSADVKQKVTNYPPTITESKSNEATTGQASLKCEASAVPADPEWYRD 247
QY 259 DKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKNKGHTNASIMLFGPAYSE 318
DB 248 DTR-INSANGLEIKSTEGQSLTNTVNTVEHYGNTVCAANKLGVTNASLVLFRPGSVRG 306
QY 319 VSGTSTRRACGCVLLPLVL 338
DB 307 I-NGSISLAVPLMLLAASLL 325

RESULT 6

US-09-135-080-2
Sequence 2, Application US/09135080
Patent No. 6423827
GENERAL INFORMATION:
APPLICANT: Levitt, Pat R.
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fastseq for Windows Version 2.0
CURRENT APPLICATION DATA:
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen

REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-620-3214
TELEFAX: 609-620-3259
TELEX:
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 325 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-09-135-080-2

Query Match 51.1%, Score 923.5, DB 4; Length 325;
Best Local Similarity 55.3%, Pred. No. 3.8e-84;
Matches 177; Conservative 60; Mismatches 78; Indels 5; Gaps 4;

QY 20 LAALCLF-QGVPRSGDATFPKAMDNVTVRQGESATLCTIDNRVTRVAVLNRSITLYAG 78
DB 10 LRLCLLPTGLPVRSD--FNRGTDNITVRQGDITAILRCVLEDKNSKVAVLNRSIGIIFAG 67
QY 79 NDKWCLDPVLLSNTQTOYSIEIQNVVDYDEGPTCSVOTDNHPTKSRVHLIVQVSPKI 138
DB 68 HDKWSLDPRVLEKRSLSYLRQKVDVDEGPTCSVOTQHEPKTSQVYLIVQVPEKI 127
QY 139 VEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGITREQSGD 198
DB 128 SNSSDVTNVEGNSVTLVCMANGRPVITWRHLPTTGREFEGEEYLEILGITREQSGK 187
QY 199 YECASNDVAAPVRRVKVTNYPPIYISEAKGTGVPVQKGTQCEASAVPSAEFQWKD 258
DB 188 YECCAANEVSSADVKQKVTNYPPTITESKSNEATTGQASLKCEASAVPADPEWYRD 247
QY 259 DKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKNKGHTNASIMLFGPAYSE 318
DB 248 DTR-INSANGLEIKSTEGQSLTNTVNTVEHYGNTVCAANKLGVTNASLVLFRPGSVRG 306
QY 319 VSGTSTRRACGCVLLPLVL 338
DB 307 I-NGSISLAVPLMLLAASLL 325

RESULT 7

US-08-414-657D-60
Sequence 60, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: Fastseq for Windows Version 2.0
CURRENT APPLICATION DATA:
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435

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US-09-135-080-4
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; TOPOLOGY: linear
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; LENGTH: 325 amino acids
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; TYPE: amino acid
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; STRANDEDNESS: single
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; TOPOLOGY: linear
;
; MOLECULE TYPE: protein
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; FRAGMENT TYPE: internal
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; US-08-414-657D-2
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; Query Match 51.1%; Score 923.5; DB 2; Length 325;
; Best Local Similarity 55.1%; Pred. No. 3.8e-84;
; Matches 177; Conservative 60; Mismatches 78; Indels 5; Gaps 4;
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; DB 17 LRLCLLFTGLPVSVD--FNRGTDNITVRQGDAILRCVLEDKNSKVAWLNRSGLIFAG 74
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; DB 75 HDKWSLDPRLVELEKRSLEYSRLQKVDYDEGSYTCVQTHPEKTSQVILIVQVPPKI 134
; QY 139 VEISSDISINEGNNISLCTIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGTRQSGD 198
; DB 135 SNISSDVTNVEGSSNVLVCMANGRPVITWRHLTPLGRFEGEEYLEILGITRQSGK 194
; QY 199 YECASNDVAAPVRRVKVTYVNPYIIEAKGTGVPVQKGTLOCEASAVPSAEFQWYKD 258
; DB 195 YECKAANEVSSADYKQVKTVPYPTITESKSNBATTGROASLKCEASAVPAPDFEYRD 254
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; DB 255 DTR-INSANGLEIKSTEGQSSLTVTNVTTEHYGNTVCAANKLGVTNASLVLFRPGSVRG 313
; QY 319 VSGTSSRRAGCVWLLPLLLVLLK 343
; DB 314 I-NGSISLAVPLWLLAASFLCLSK 337
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; US-08-414-657D-2
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; Sequence 2, Application US/08414657D
;
; Patent No. 5861283
;
; GENERAL INFORMATION:
;
; APPLICANT: Levitt, Pat
;
; APPLICANT: Pimenta, Aurea
;
; APPLICANT: Fischer, Itzhak
;
; APPLICANT: Zhukareva, Victoria
;
; TITLE OF INVENTION: Limbic System-Associated Membrane
;
; NUMBER OF SEQUENCES: 60
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: Dechert Price & Rhoads
;
; STREET: 997 Lenox Drive, Building 3, Suite 210
;
; CITY: Lawrenceville
;
; STATE: NJ
;
; COUNTRY: USA
;
; ZIP: 08543
;
; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Diskette
;
; OPERATING SYSTEM: DOS
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; SOFTWARE: FASTSEQ for Windows Version 2.0
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; CURRENT APPLICATION DATA:
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; APPLICATION NUMBER: US/08/414,657D
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; FILING DATE: 31-MAR-1995
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; CLASSIFICATION: 435
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; PRIOR APPLICATION NUMBER:
;
; APPLICATION NUMBER:
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; FILING DATE:
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; ATTORNEY/AGENT INFORMATION:
;
; NAME: Bloom, Allen
;
; REGISTRATION NUMBER: 29,135
;
; REFERENCE/DOCKET NUMBER: 317743-102
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: 609-520-3214
;
; TELEFAX: 609-520-3259
;
; TELEX:
;
; INFORMATION FOR SEQ ID NO: 2:
;
; SEQUENCE CHARACTERISTICS:
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; US-09-135-080-4
;
; TOPOLOGY: linear
;
; LENGTH: 325 amino acids
;
; TYPE: amino acid
;
; STRANDEDNESS: single
;
; TOPOLOGY: linear
;
; MOLECULE TYPE: protein
;
; FRAGMENT TYPE: internal
;
; US-08-414-657D-2
;
; Query Match 51.1%; Score 923.5; DB 2; Length 325;
; Best Local Similarity 55.1%; Pred. No. 3.8e-84;
; Matches 177; Conservative 60; Mismatches 78; Indels 5; Gaps 4;
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; QY 20 LAALCLF-QGVPRSGDATFFKAMDNVTYRQGESATLCTIDNRVTRVAWLNSTLYAG 78
; DB 17 LRLCLLFTGLPVSVD--FNRGTDNITVRQGDAILRCVLEDKNSKVAWLNRSGLIFAG 74
; QY 79 NDKWGLDPRVLLSNTQYSEIQNVYDDEGPTCSVQTDNHPKTSRVHLIVQVSPKI 138
; DB 75 HDKWSLDPRLVELEKRSLEYSRLQKVDYDEGSYTCVQTHPEKTSQVILIVQVPPKI 134
; QY 139 VEISSDISINEGNNISLCTIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGTRQSGD 198
; DB 135 SNISSDVTNVEGSSNVLVCMANGRPVITWRHLTPLGRFEGEEYLEILGITRQSGK 194
; QY 199 YECASNDVAAPVRRVKVTYVNPYIIEAKGTGVPVQKGTLOCEASAVPSAEFQWYKD 258
; DB 195 YECKAANEVSSADYKQVKTVPYPTITESKSNBATTGROASLKCEASAVPAPDFEYRD 254
; QY 259 DKRLIEGKKGKGVKVENRPFSLKLIFFNVSEHDYGNITCVASNKLGHNTNASIMLFGPGAVSE 318
; DB 255 DTR-INSANGLEIKSTEGQSSLTVTNVTTEHYGNTVCAANKLGVTNASLVLFRPGSVRG 313
; QY 319 VSGTSSRRAGCVWLLPLLLVLLK 343
; DB 314 I-NGSISLAVPLWLLAASFLCLSK 337
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; RESULT 5
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; US-08-414-657D-41
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; Sequence 41, Application US/08414657D
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; Patent No. 5861283
;
; GENERAL INFORMATION:
;
; APPLICANT: Levitt, Pat
;
; APPLICANT: Pimenta, Aurea
;
; APPLICANT: Fischer, Itzhak
;
; APPLICANT: Zhukareva, Victoria
;
; TITLE OF INVENTION: Limbic System-Associated Membrane
;
; NUMBER OF SEQUENCES: 60
;
; CORRESPONDENCE ADDRESS:
;
; ADDRESSEE: Dechert Price & Rhoads
;
; STREET: 997 Lenox Drive, Building 3, Suite 210
;
; CITY: Lawrenceville
;
; STATE: NJ
;
; COUNTRY: USA
;
; ZIP: 08543
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; COMPUTER READABLE FORM:
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; MEDIUM TYPE: Diskette
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; SOFTWARE: FASTSEQ for Windows Version 2.0
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; APPLICATION NUMBER: US/08/414,657D
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; FILING DATE: 31-MAR-1995
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; CLASSIFICATION: 435
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; PRIOR APPLICATION NUMBER:
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; APPLICATION NUMBER:
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; FILING DATE:
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; ATTORNEY/AGENT INFORMATION:
;
; NAME: Bloom, Allen
;
; REGISTRATION NUMBER: 29,135
;
; REFERENCE/DOCKET NUMBER: 317743-102
;
; TELECOMMUNICATION INFORMATION:
;
; TELEPHONE: 609-520-3214
;
; TELEFAX: 609-520-3259
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; TELEX:
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; INFORMATION FOR SEQ ID NO: 2:
;
; SEQUENCE CHARACTERISTICS:

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Db 75 HDKWSLDPRVLEKRAHLEYSLRIQKVDYDEGPTCSVQTOHEPKTSQVYLLIVQPPKI 134
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QY 259 DKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNKTCVASKNGLGHTNATIMLFGPGAVSE 318
Db 255 DTR-INSANGLEIKSTEGOSLTVTNVTEEHYGNKTCVAAKNGLVTNASLVLFPRGVRG 313
QY 319 VSGTSTRACGVWLLPLLVHLLK 343
Db 314 I-NGSISLAVPLMLLAASLFCLLSK 337

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RESULT 2
US-08-414-657D-43
; Sequence 43, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 43:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-414-657D-43

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Query Match 51.3%; Score 926.5; DB 2; Length 338;
-Best Local Similarity 55.1%; Pred. No. 2e-84;
Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;
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Db 17 LRLCLLPTGLPVRSD--FNRGTDNITVRQDGTALRCVVEDKNSKVAVLNRSIIFAG 74
QY 79 NDKWCLDPRVLLSNTQOYSIEIQNVYDDEGPTCSVQTDNHPKTSRVHLLIVQSPKI 138
Db 75 HDKWSLDPRVLEKRAHLEYSLRIQKVDYDEGPTCSVQTOHEPKTSQVYLLIVQPPKI 134
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Db 255 DTR-INSANGLEIKSTEGOSLTVTNVTEEHYGNKTCVAAKNGLVTNASLVLFPRGVRG 313
QY 319 VSGTSTRACGVWLLPLLVHLLK 343
Db 314 I-NGSISLAVPLMLLAASLFCLLSK 337

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RESULT 3
US-09-135-080-4
; Sequence 4, Application US/09135080
; Patent No. 6423827
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat R.
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 29
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/135,080
; FILING DATE: 17-AUG-1998
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/414,657
; FILING DATE: 31-MAR-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-620-3214
; TELEFAX: 609-620-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 4:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single

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GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 03:03:33 ; Search time 35 seconds

(without alignments)

415.855 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQPKMHSISWAIPTGL.....RRAGCVMLPLVLHLLKF 344.

Scoring table: BLOSUM62

Gapop 10.0, Gapext 0.5

Searched: 328717 seqs, 42310858 residues

Total number of hits satisfying chosen parameters: 328717

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database:

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2: /cgn2_6/ptodata/2/1aa/5B_COMB.pep.*
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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2	926.5	51.3	338	2	US-08-414-657D-43
3	926.5	51.3	338	4	US-09-135-080-4
4	923.5	51.1	325	2	US-08-414-657D-2
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6	923.5	51.1	325	4	US-09-135-080-2
7	923.5	51.1	338	2	US-08-414-657D-60
8	923.5	51.1	338	4	US-09-135-080-8
9	908	50.3	308	2	US-08-414-657D-46
10	907	50.2	315	2	US-08-414-657D-47
11	905	50.1	310	2	US-08-414-657D-45
12	902	49.9	304	2	US-08-414-657D-44
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17	261	14.5	1395	3	US-09-540-245A-15
18	256	14.2	421	2	US-08-659-984A-1
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20	256	14.2	444	2	US-08-659-984A-5
21	256	14.2	444	3	US-08-660-531-5
22	249.5	13.8	607	2	US-08-752-307B-12
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24	249.5	13.8	607	4	US-09-991-326-12
25	246.5	13.6	1018	1	US-08-408-093-6
26	246.5	13.6	1018	1	US-08-408-420A-6
27	246.5	13.6	1018	1	US-08-714-901-6

28	246.5	13.6	1018	3	US-08-040-741-6
29	243.5	13.5	605	2	US-08-752-307B-8
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34	237	13.1	73	2	US-08-414-657D-51
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37	230.5	12.8	868	4	US-09-077-955-1
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39	229.5	12.7	869	2	US-08-644-271-29
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41	225.5	12.5	478	5	PCT-US95-08493-15
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44	220.5	12.2	423	4	US-09-778-510-22
45	220.5	12.2	442	4	US-09-778-510-20

ALIGNMENTS

RESULT 1
US-08-414-657D-42
; Sequence 42 Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; TITLE OF INVENTION: Protein and DNA
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Dechert Price & Rhoads
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 42:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 338 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-414-657D-42

Query Match 51.3%; Score 926.5; DB 2; Length 338;
Best Local Similarity 55.1%; Pred. No. 2e-84;
Matches 179; Conservative 60; Mismatches 81; Indels 5; Gaps 4;

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 RN [2]
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 RX MEDLINE=99264333; PubMed=10330412;
 RA Mary A., Strim P., Spaltmann F., Plagge A., Kauselmann G., Buck F.,
 RA Rathjen F.G., Brummendorf T.,
 RT Neurotactin, A novel neurite outgrowth-promoting Ig-like protein
 RT that interacts with CEP-1 and LAMP-2;
 RL J. Cell Biol. 145:865-876(1999).
 DR EMBL; AJ132998; CAB44445.1; -
 DR InterPro; IPR007110; Ig-Like.
 DR InterPro; IPR003598; IG_C2.
 DR InterPro; IPR003006; IG_MHC.
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 DR PROSITE; PS00835; IG_LIKE; 2.
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 QY 70 NRSTLYAGNDKWLDPVVLLSNTOFYSTIEIQNDVYDEGYTCVOTDNHPTSRVH 129
 DB 71 NRSSIFAGSRNVDPRVSIATNRRYSIQIDVDYDDGPTCSVOTQHTPTMQVH 130
 QY 130 LIVQSPKRVISDISINEGNNISLTCTATGRPEPTVTRHISPRKAVGVSEDEYL 186
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 DB 190 VITRQAGEYECSSANDVSPDVVKVKTVNSP 222
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 DT 01-OCT-2002 (TRMBLrel. 22, Created)
 DT 01-OCT-2002 (TRMBLrel. 22, Last sequence update)
 DT 01-MAR-2003 (TRMBLrel. 23, Last annotation update)
 DE Hypothetical protein.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Testis;
 RA Strausberg R.;
 RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL; BC036771; RAH36771.1;
 DR InterPro; IPR003599; Ig-Like.
 DR InterPro; IPR007110; Ig-Like.
 DR InterPro; IPR003598; IG_C2.
 DR InterPro; IPR003006; IG_MHC.
 DR Pfam; PF00047; Ig; 2.
 DR SMART; SM00408; IGC2; 2.
 DR PROSITE; PS00835; IG_LIKE; 2.
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 QY 247 AVPSAEQWYKODKRLIEGKKGKVENRPFSLKLIFFNVSEHDYGNVTCVASKNLGHTNA 306
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DB 73 NRSIIIFAGGDKWSVDPRVLSLTKNROYSLQIONVDYDGPPTCSVQTDHPRTMVOH 132

QY 130 LIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFVSEDEYLEIQ 189
DB 133 LTVOVPPKIYDLSNDMTVNEGNTVTLCTATCKPEFFISWRHSIPSAKPF-ENGQYLDIY 191

QY 190 GITRQSGDYECASNDVAAVPRVRKVTNYPPIYISEAKGTGVPVQKGTQCEASAVP 249
DB 192 GITRQAGEYECASNDVSPDVRKVKVYVNFAPTIQIKSGTVTPGRSLIRCEGAGVP 251

QY 250 SAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKNGLHTNASIM 309
DB 252 PPAFEWYKGEKLFNGQOIIIONFSTRILTAVTNTQEHFGNVTCAANKLGTNASLP 311

QY 310 LFGPGAVSEVSNSTRACGVWLLPL 335
DB 312 LNPPSTAQYGITGSADVLFSCWYLV 337

RESULT 12
Q8HW98 PRELIMINARY; PRT; 325 AA.
AC O8HW98;
DT 01-MAR-2003 (TrEMBLrel. 23, Created)
DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
DE Adult male hypothalamus cDNA, RIKEN full-length enriched library,
DE clone A230106M20 product; weakly similar to limbic system-associated
DE membrane protein precursor (E19s) (CHLAMP, G19-isoform)
DE (Fragment)
DE Mus musculus (Mouse)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Embryo;
RX MEDLINE=2234683; PubMed=1246851;
RA The FANTOM Consortium
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
ET "Analysis of the mouse transcriptome based on functional annotation of
ET 60,770 full-length cDNAs";
EL Nature 420:563-573(2002)
DR EMBL; AK039193; BAC30273.1;
FT NON-TER
SQ SEQUENCE 325 AA; 35609 MW; F4277BA4A416F707 CRC64;

Query Match 42.0%; Score 759; DB 7; Length 325;
Best Local Similarity 50.3%; Pred. No. 4.4e-56;
Matches 163; Conservative 45; Mismatches 104; Indels 12; Gaps 6;

QY 15 AIFTGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLCTIDNRVTRAWLNRSTI 74
DB 5 AALAGLAVIS--RG--LLSQSLEFSSPADNVTVCBGDNATLSCFIDEHVTAVLNRNSI 60

QY 75 LYAGNDKWLCDPRVLLSNTQTOYSIEIONVDYDEGPTCSVQTDNHPKTSRVHILVOV 134
DB 61 LYAGNDKWLCDPRVLLSNTQTOYSIEIONVDYDEGPTCSVQTDNHPKTSRVHILVOV 120

QY 135 SPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFVSEDEYLEIGITRE 194
DB 121 PARIYNISSPVNVEGNNVLLCLAVGRPEPTVTVRQLRD---GFTSEGEILEISDIQRG 177

Query Match 38.0%; Score 686.5; DB 11; Length 188;
Best Local Similarity 74.1%; Pred. No. 2.9e-50;
Matches 129; Conservative 18; Mismatches 24; Indels 3; Gaps 1;

QY 12 ISWAIFTGLAALCLF---OGVPRSGDATFPKAMDNVTVRQGESATLCTIDNRVTRAW 68
DB 9 LPWKCLVTVSLRLFLVPTGVPVRSQDATFPKAMDNVTVRQGESATLCTIDNRVTRAW 68

QY 69 LNRSTILYAGNDKWLCDPRVLLSNTQTOYSIEIONVDYDEGPTCSVQTDNHPKTSRV 128
DB 69 LNRSTILYAGNDKWLCDPRVLLSNTQTOYSIEIONVDYDEGPTCSVQTDNHPKTSRV 128

QY 129 HLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFVSE 182
DB 129 HLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHSIPKAVGFVSE 182

RESULT 14
Q9W6V1 PRELIMINARY; PRT; 261 AA.
AC Q9W6V1;
DT 01-NOV-1999 (TrEMBLrel. 12, Created)
DT 01-NOV-1999 (TrEMBLrel. 12, Last sequence update)
DE Neurotactin-S.
DE NTRP-S
GN NTRP-S
OS Gallus gallus (Chicken)
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RA Brueggendorff T.
```


Query Match 52.4%; Score 946; DB 7; Length 334;
 Best Local Similarity 55.2%; Pred. No. 6.7e-72;
 Matches 182; Conservative 57; Mismatches 85; Indels 6; Gaps 4;

QY 14 WAIFGTGLAALCLFQGVPRVSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAVLNST 73
 DB 10 WVL--GFELFLFQGLPVRSD--FTRGTDNITVRQGDTAILRCFVEDRSKAVLNRS 65
 QY 74 ILVAGNDKCLDPRVLLSNTQYSTEIQNVVDYDEGPTCSVOTDNHPTKSRVHLVQ 133
 DB 66 IIFAGEDKSLDPRVELEKRSPLYSRLQKVDDYDEGPTCSVOTQHPKTSQVYLIQ 125
 QY 134 VSPKIVEISSDISINEGNNISLCTIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGTR 193
 DB 126 VPKISNISSDITVNEGSNVLVCMANGRPVITWRHLTPGFEFEGBEYLEILGTR 185
 QY 194 EDSGDECSASNDVAAPVRRVKVTNYPYISSEAKGTGVPVGOKGTLOCEASAVPSAEF 253
 DB 186 EOSGKECKAANEVASADYKQVRVTNYPPTITESKSNEAATGRQALLRCEASAVPTDF 245
 QY 254 QWYKDKRLIEGKGVKVENRPPFLSKLIFENYSEHDYNTCVASNKLGHNTASIMLFGP 313
 DB 246 EWRDTR-INSANGLEIKSGSLSLWVNTVEHYGNTCVAAKLGVTNLSYLRP 304
 QY 314 GAVSEVNSTSRACGVWLLPLLVHLHLK 343
 DB 305 G-TGRVDNGSVSLAVPLMLLAASLLCLLSK 333.

RESULT 7

Q81V49 PRELIMINARY; PRT; 338 AA.
 AC Q81V49;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE Similar to limbic system-associated membrane protein.
 OS Homo sapiens (Human)
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 PP SEQUENCE FROM N.A.
 RC Tissue-Colon;
 RA Strausberg R.;
 PL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
 DR EMBL: BC033803; AAH33803.1;
 SQ SEQUENCE 338 AA; 37393 MW; 88CF00E07302817B CRC64;

Query Match 51.6%; Score 932.5; DB 4; Length 338;
 Best Local Similarity 55.4%; Pred. No. 9.5e-71;
 Matches 180; Conservative 60; Mismatches 80; Indels 5; Gaps 4;

QY 20 LAAICLF-OGVPRVSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAVLNSTIYAG 78
 DB 17 LRLCLLPPLGPRVSD--FNRGTDNITVRQGDTAILRCFVEDRSKAVLNRSIIIFAG 74
 QY 79 NDKWCLDPRVLLSNTQYSTEIQNVVDYDEGPTCSVOTDNHPTKSRVHLIVQSPKI 138
 DB 75 HDKWSLDPRVELEKRSPLYSRLQKVDDYDEGPTCSVOTQHPKTSQVYLIQVPPKI 134
 QY 139 VEISSDISINEGNNISLCTIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGTRQSGD 198
 DB 135 SNISSDVTVNEGSNVLVCMANGRPVITWRHLTPGFEFEGBEYLEILGITRQSGK 194
 QY 199 YECASNDVAAPVRRVKVTNYPYISSEAKGTGVPVGOKGTLOCEASAVPSAEFQYKD 258
 DB 195 YECCAANEVSSADYKQVRVTNYPPTITESKSNEAATGRQALLRCEASAVPAPEWYRD 254
 QY 259 DKRLIEGKGVKVENRPPFLSKLIFENYSEHDYNTCVASNKLGHNTASIMLFGVASE 318
 DB 255 DTR-INSANGLEIKSTEGOSLAVTNVTEHYGNTCVAAKLGVTNLSYLRPGRGVRG 313

RESULT 9

Q8BLK3 PRELIMINARY; PRT; 341 AA.
 AC Q8BLK3;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)

QY 319 VSNGTSSRACGVWLLPLLVHLHLK 343
 DB 314 I-NGSISLAVPLMLLAASLLCLLSK 337

RESULT 8
 Q02869 PRELIMINARY; PRT; 350 AA.
 ID Q02869;
 AC Q02869;
 DT 01-JUL-1997 (TrEMBLrel. 04, Created)
 DT 01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
 DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
 DE CHLAMP, g11-isoform precursor.
 OS Gallus gallus (Chicken)
 CC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 CC Actinopteria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 CC Gallus.
 OX NCBI_TaxID=9031;
 RN [1]
 PP SEQUENCE FROM N.A.
 RC Tissue-Brain;
 RX MEDLINE=97358596; PubMed=9215692;
 RA Brummendorf T., Spaltmann F., Treubert U.;
 RT Cloning and characterization of a neural cell recognition molecule on
 RT axons of the retinotectal system and spinal cord.";
 RL Eur. J. Neurosci. 9:1105-1116(1997).
 DR EMBL: Z94719; CAB08114.1;
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003598; Ig-G2.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig; 3.
 DR SMART: SM00408; IGG2; 2.
 DR PROSITE: PS00835; IG_LIKE; 3.
 KW Brain; GPI-anchor; Immunoglobulin domain; Signal.
 FT SIGNAL 1 28 POTENTIAL.
 FT CHAIN 29 350 CHLAMP, G11-ISOFORM.
 SQ SEQUENCE 350 AA; 38656 MW; 0844A892878894D4 CRC64;

Query Match 51.5%; Score 930.5; DB 7; Length 350;
 Best Local Similarity 54.3%; Pred. No. 1.5e-70;
 Matches 193; Conservative 56; Mismatches 81; Indels 17; Gaps 5;

QY 20 LAAICLF-OGVPRVSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAVLNSTIYAG 78
 DB 17 LRLCLLPPLGPRVSD--FTRGTDNITVRQGDTAILRCFVEDRSKAVLNRSIIIFAG 74
 QY 79 NDKWCLDPRVLLSNTQYSTEIQNVVDYDEGPTCSVOTDNHPTKSRVHLIVQSPKI 138
 DB 75 EDKWSLDPRVELEKRSPLYSRLQKVDDYDEGPTCSVOTQHPKTSQVYLIQVPPKI 134
 QY 139 VEISSDISINEGNNISLCTIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGTRQSGD 198
 DB 135 SNISSDVTVNEGSNVLVCMANGRPVITWRHLTPGFEFEGBEYLEILGITRQSGK 194
 QY 199 YECASNDVAAPVRRVKVTNYPYISSEAKGTGVPVGOKGTLOCEASAVPSAEFQYKD 258
 DB 195 YECCAANEVSSADYKQVRVTNYPPTITESKSNEAATGRQALLRCEASAVPTDFEYRD 254
 QY 259 DKRLIEGKGVKVENRPPFLSKLIFENYSEHDYNTCVASNKLGHNTASIMLFGVASE 311
 DB 255 DTR-INSANGLEIKSTEGOSLWLVNTEHYGNTCVAAKLGVTNLSYLRVLPPL 313
 QY 312 -----GPAVSEVNSTSRACGVWLLPLLVHLHLK 343
 DB 314 PNPPGPG--TGRVDNGSVSLAVPLMLLAASLLCLLSK 349

RESULT 9
 Q8BLK3 PRELIMINARY; PRT; 341 AA.
 AC Q8BLK3;
 DT 01-MAR-2003 (TrEMBLrel. 23, Created)

DE CPU-SE alpha 1 isoform.
GN CPU-SE.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
CX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Lodge A.P., McNamee C.J., Howard M.R., Reed J.E., Moss D.J.;
ET "Characterisation of CPU-SE, a secreted isoform of the IgLON family
RL protein CPU-1.";
RL EMBL: AF292936; AAG01879.1; -
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00408; Igc2; 2.
DR PROSITE: PS0835; IG-LIKE; 3.
ZW Immunoglobulin domain.
SQ SEQUENCE 313 AA; 34606 MW; 68C5D27FDDC6FB2 CRC64;

Query Match 75.28; Score 1357.5; DB 13; Length 315;
Best Local Similarity 83.08; Pred. No. 8.5e-107;
Matches 253; Conservative 26; Mismatches 23; Indels 3; Gaps 1;

QY 11 STSWAIFGLAALCLF---QGVPRSGDATFPKAMDNVTVROGESATLRCITDNRVTRVA 67
DB 8 LPWCLVVLCLRLLEFLVPAGVPVRSQDATFPKAMDNVTVROGESATLRCITDNRVTRVA 67

QY 68 WLNRSILYAGNDKWCIDPRVLLSNTQYSISIQNVYDYGPTCVQPDNHPKTSR 127
DB 68 WLNRSILYAGNDKWCIDPRVLLSNTQYSISIQNVYDYGPTCVQPDNHPKTSR 127

QY 128 VHLIVQSPKIVEISSDISINEGNISLTCTATGPRPTVTRHISPKAVGVSEDEYLE 187
DB 128 VHLIVQSPKIVEISSDISINEGNISLTCTATGPRPTVTRHISPKAVGVSEDEYLE 187

QY 188 IGGITREOSGDEYCSASNDVAAPVRRVKVTNPPYISAKGTGVPVQKGTQCEASA 247
DB 188 ITGITREOSGDEYCSASNDVAAPVRRVKVTNPPYISAKGTGVPVQKGTQCEASA 247

QY 248 VPSADFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 307
DB 248 VPSADFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 307

QY 308 IMFLG 312
DB 308 MILYG 312

RESULT 5
ID Q9DF61 PRELIMINARY; PRT: 344 AA.
AC 002870;
DT 01-MAR-2001 (TrEMBLrel. 16, Created)
DT 01-MAR-2001 (TrEMBLrel. 16, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE OBCAM alpha 1 isoform.
GN OBCAM.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
CX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RA Lodge A.P., Howard M.R., McNamee C.J., Moss D.J.;
ET "Co-localisation, heterophilic interactions and regulated expression"

RT of IgLON family proteins in the chick nervous system.";
RL Brain Res. Mol. Brain Res. 82:84-94(2000).
DR EMBL: AF292934; AAG01877.1; -
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00408; Igc2; 2.
DR PROSITE: PS0835; IG-LIKE; 3.
KW Immunoglobulin domain.
SQ SEQUENCE 344 AA; 37531 MW; 37FE6051CBF0E7B4 CRC64;

Query Match 70.6%; Score 1275.5; DB 13; Length 344;
Best Local Similarity 72.8%; Pred. No. 8.5e-100;
Matches 246; Conservative 32; Mismatches 53; Indels 7; Gaps 3;

QY 12 ISWAIFGLAALCLF---QGVPRSGDATFPKAMDNVTVROGESATLRCITDNRVTRVA 68
DB 9 LPWCLVVLCLRLLEFLVPAGVPVRSQDATFPKAMDNVTVROGESATLRCITDNRVTRVA 68

QY 69 WLNRSILYAGNDKWCIDPRVLLSNTQYSISIQNVYDYGPTCVQPDNHPKTSR 128
DB 69 WLNRSILYAGNDKWCIDPRVLLSNTQYSISIQNVYDYGPTCVQPDNHPKTSR 128

QY 129 HLIQVSPKIVEISSDISINEGNISLTCTATGPRPTVTRHISPKAVGVSEDEYLE 188
DB 129 HLIQVSPKIVEISSDISINEGNISLTCTATGPRPTVTRHISPKAVGVSEDEYLE 188

QY 189 QGITREOSGDEYCSASNDVAAPVRRVKVTNPPYISAKGTGVPVQKGTQCEASA 248
DB 189 TGITREOSGDEYCSASNDVAAPVRRVKVTNPPYISAKGTGVPVQKGTQCEASA 248

QY 249 PSADFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 308
DB 249 PSADFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 308

QY 309 MLFGGAVSEVSGTSSRRAG--CVNLLPLLVLLHLLKF 344
DB 309 ILYGGAHVDSGNAASRAAGLCW--ATLLARLLDLF 344

RESULT 6
ID 002870 PRELIMINARY; PRT: 334 AA.
AC 002870;
DT 01-JUL-1997 (TrEMBLrel. 04, Created)
DT 01-JUL-1997 (TrEMBLrel. 04, Last sequence update)
DT 01-MAR-2003 (TrEMBLrel. 23, Last annotation update)
DE CHLAMP g9-isoform precursor.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
OC Gallus.
CX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=97358596; PubMed=9215692;
RA Bruemendorf T., Spaltmann F., Treubert U.;
RT "Cloning and characterization of a neural cell recognition molecule on
RT axons of the retinotectal system and spinal cord.";
RL Eur. J. Neurosci. 9:1105-1116(1997).
DR EMBL: Z94718; CAB08113.1; -
DR InterPro: IPR007110; Ig-like.
DR InterPro: IPR003598; Ig_c2.
DR InterPro: IPR003006; Ig_MHC.
DR Pfam: PF00047; Ig; 3.
DR SMART: SM00408; Igc2; 2.
DR PROSITE: PS0835; IG-LIKE; 3.
KW Brain; GPI-anchor; Immunoglobulin domain; Signal.
FT SIGNAL 1 24 POTENTIAL.
FT CHAIN 25 334 CHLAMP, G9-ISOFORM.
FT SEQUENCE 334 AA; 37288 MW; 0B40A768D9609E77 CRC64;

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Db 121 NPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGV 180
QY 181 SEDYLEIQITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKT 240
Db 181 SEDYLEIQITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKT 240
QY 241 LQCCASVPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASK 300
Db 241 LQCCASVPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASK 300
QY 301 LGHTNASIMLFGGAVSEVNGTSRRAGCVWLLPLVLLHLLKF 344
Db 301 LGHTNASIMLFGGAVSEVNGTSRRAGCVWLLPLVLLHLLKF 344

RESULT 2
O57596
ID O57596 PRELIMINARY; PRT; 313 AA.
AC O57596
DT 01-JUN-1998 (Tremblrel. 06, Created)
DT 01-JUN-1998 (Tremblrel. 06, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE Neural secreted glycoprotein (CEPU-SE alpha 2 isoform).
GN CEPU OR CEPU-SE.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RA Kim D., Moss D.J.;
RT Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
RL Submitted (FEB-1998) to the EMBL/GenBank/DDBJ databases.
RW Immunoglobulin domain.
KW TISSUE=Brain;
SQ SEQUENCE 313 AA; 34482 MW; 99AD825CAB4A5347 CRC64;

Query Match 79.18; Score 1428; DB 13; Length 313;
Best Local Similarity 85.48; Pred. No. 9e-113;
Matches 263; Conservative 27; Mismatches 18; Indels 0; Gaps 0;

QY 5 QPKHNSISWAFITGLAALCLFQGVPRSGDATFPKAMDNTVROGESATLRCCTIDNRTV 64
Db 3 QAKQHPVSWIFAGWALLLFQGVPRSGDATFPKAMDNTVROGESATLRCSDNRTV 62
QY 65 RVANLNRSTLYAGDKWCLDPVLLSNTQTSIEIQNVVDYDEGPTCSVQTDNHPK 124
Db 63 RVANLNRSTLYAGDKWCLDPVLLSNTQTSIEIQNVVDYDEGPTCSVQTDNHPK 122
QY 125 TSVRHLYVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGVSEDE 184
Db 123 TSVRHLYVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGVSEDE 182
QY 185 YLEIQITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKTQCE 244
Db 183 YLEITGITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKTQCE 242
QY 245 ASAVPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASKNIGHT 304
Db 245 ASAVPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASKNIGHT 304
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Db 243 ASAVPSAEQWYKDDKRLAEQKGLKVENKAFFSRLTFNFVSEQDYGNVTCVAS 180
QY 305 NASIMLFG 312
Db 303 NASMILYG 310

RESULT 3
O93242
ID O93242 PRELIMINARY; PRT; 344 AA.
AC O93242
DT 01-NOV-1998 (Tremblrel. 08, Created)
DT 01-NOV-1998 (Tremblrel. 08, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE CEPU-1.
OS Gallus gallus (Chicken).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
OC Gallus.
OX NCBI_TaxID=9031;
RN [1]
RP SEQUENCE FROM N.A.
RA Kimura Y., Shirabe K., Fukushima M., Takeshita M., Tanaka H.;
RT "CEPU-1: an immunoglobulin Superfamily Molecule, Has Cell Adhesion
RT Activity and Shows Dynamic Expression Patterns in Chick Embryonic
RT Spinal Cord.";
RL Submitted (MAR-1998) to the EMBL/GenBank/DDBJ databases.
DR EMBL; AB011810; BAA31514.1;
DR InterPro; IPR007110; Ig_Like;
DR InterPro; IPR003598; Ig_C2;
DR InterPro; IPR003006; Ig_MHC;
DR Pfam; PF00047; Ig_3;
DR SMART; SM00408; IGC2; 2;
DR PROSITE; PS00835; IG_LIKE; 3;
KW Immunoglobulin domain.
SQ SEQUENCE 344 AA; 37613 MW; 22CAA8F526A6B57E CRC64;

Query Match 79.04; Score 1427.5; DB 13; Length 344;
Best Local Similarity 79.24; Pred. No. 1.1e-112;
Matches 267; Conservative 31; Mismatches 36; Indels 3; Gaps 1;

QY 11 SISWAFITGLAALCLF---QGVPRSGDATFPKAMDNTVROGESATLRCIDNRTVRA 67
Db 8 ALPWRCLVLLCLLFLVPAQVPRSGDATFPKAMDNTVROGESATLRCSDNRTVRA 67
QY 68 WLNRSITLYAGDKWCLDPVLLSNTQTSIEIQNVVDYDEGPTCSVQTDNHPKTSR 127
Db 68 WLNRSITLYAGDKWCLDPVLLSNTQTSIEIQNVVDYDEGPTCSVQTDNHPKTSR 127
QY 128 VHLIVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGVSEDEYLE 187
Db 128 VHLIVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGVSEDEYLE 187
QY 188 IGTITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKTQCEASA 247
Db 188 IGTITREQSGDYECASNDVAAPVVRKVTVNPPYISAKGTGVPVGOKTQCEASA 247
QY 248 VPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASKNIGHTNAS 307
Db 248 VPSAEQWYKDDKRLIEGKGVKVENRPLSKLIFNFVSEHDYGNVTCVASKNIGHTNAS 307
QY 308 IMLPGCAVSEVNGTSRRAGCVWLLPLVLLHLLKF 344
Db 308 IMLPGCAVSEVNGTSRRAGCVWLLPLVLLHLLKF 344

RESULT 4
O9DG15
ID O9DG15 PRELIMINARY; PRT; 315 AA.
AC O9DG15
DT 01-MAR-2001 (Tremblrel. 16, Created)
DT 01-MAR-2001 (Tremblrel. 16, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
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OM protein - protein search, using sw model.

Run on: September 11, 2003, 03:01:28 / Search time 78 seconds
(without alignments)
1138.078 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQPKMHSISWAIFTGL.....RRAGCVMLPLLVLLHLLKF 344

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 830525 seqs, 258052604 residues

Total number of hits satisfying chosen parameters: 830525

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

SPREMBL_23:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phase:*
10: sp_plant:*
11: sp_rhodent:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriap:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Match	Length	DB ID	Description
1	1780	98.6	344	11	Q8BG33
2	1428	79.1	313	13	O57596
3	1427.5	79.0	344	13	O93242
4	1357.5	75.2	315	13	O9DG15
5	1275.5	70.6	344	13	O9DF61
6	945	52.4	334	7	O02870
7	932.5	51.6	338	4	O8IV49
8	930.5	51.5	350	7	O02869
9	894	49.5	341	11	O8BLK3
10	842	45.6	352	13	O9W6V2
11	820	45.4	354	4	O8NAQ3
12	759	42.0	325	7	O8W988
13	686.5	38.0	188	11	O8BMT5
14	599	33.2	261	13	O9W6V1
15	545.5	30.2	226	4	O8N440
16	380.5	21.1	606	5	O9VMN6

17	350.5	19.4	672	5	Q8IP70
18	348	19.3	554	5	Q9W4K3
19	338.5	18.7	413	5	O9VAR6
20	333	18.4	315	5	O9VMB2
21	308.5	17.1	528	5	P91670
22	306	16.9	545	5	O9VCT4
23	303.5	16.8	316	5	O8WBP3
24	301	16.7	526	5	O9VMN9
25	300.5	16.6	316	5	O8WP94
26	297.5	16.5	316	5	O8WP58
27	290.5	16.1	2673	4	O9GSC3
28	290.5	16.1	5636	4	O9GSR7
29	287	15.9	846	13	O57577
30	287	15.9	1100	13	O57576
31	285.5	15.8	373	5	O9VLF0
32	285.5	15.8	603	5	O9NKF5
33	284	15.7	403	5	O9VP08
34	282.5	15.6	605	11	O921P2
35	282.5	15.6	838	11	O8C4B2
36	282.5	15.6	838	11	O8B096
37	279.5	15.5	725	13	O73633
38	278.5	15.4	4162	13	O98918
39	273.5	15.1	725	13	O73634
40	272.5	15.1	1323	13	O8A476
41	268.5	14.9	484	5	O56475
42	268.5	14.9	1456	4	O92626
43	265	14.7	1482	5	O9V4Y0
44	261.5	14.5	437	4	O8IZP8
45	261	14.5	1031	13	O90VM2

ALIGNMENTS

RESULT 1

Q8BG33 PRELIMINARY; PRT; 344 AA.
AC Q8BG33;
DT 01-MAR-2003 (Tremblrel. 23, Created)
DT 01-MAR-2003 (Tremblrel. 23, Last sequence update)
DT 01-MAR-2003 (Tremblrel. 23, Last annotation update)
DE Neurotrophin precursor.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Brain;
RA MEDLINE=23354683; PubMed=12466851;
RA the FANTOM Consortium,
RA the RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
60,770 full-length cDNAs."
RL Nature 420:563-573(2002).
DR ENBL; AK045973; BAC32555.1;
DR ENBL; AK046377; BAC32695.1;
SQ SEQUENCE 344 AA; 37941 MW; CDA5299D4CD86065 CRC64

Query Match 98.6%; Score 1780; DB 11; Lf

Best Local Similarity 98.0%; Pred. No. 1.6e-142;

Matches 337; Conservative 5; Mismatches 2;

QY 1 MKTIQPKMHSISWAIFTGLAALCLFQGVPRSGDATFPK

Db 1 MKTIQPKMHSISWAIFTGLAALCLFQGVPRSGDATFP

QY 61 NRVTFAWLNRSITLYAGNDKCLDPRVLLSNTOTO

Db 61 NRVTFAWLNRSITLYAGNDKCLDPRVLLSNTQT

QY 121 NHPTKSRVHLIVQSPKIVETSSDISINEGNNIS

Db 121 NHPTKSRVHLIVQSPKIVETSSDISINEGNNIS

```

FT DISULFID 139 189 PROBABLE.
FT DISULFID 235 288 PROBABLE.
FT DISULFID 330 386 PROBABLE.
FT DISULFID 427 480 PROBABLE.
FT CARBOHYD 222 222 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 316 316 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 348 348 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 424 424 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 430 430 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 479 479 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT VARSPLIC 810 1076 Missing (in isoform N-CAM 140).
FT FTIG-VSP-002588.
SQ SEQUENCE 1115 AA; 119351 MW; 2C93DCD474CFBCAF CRC64;

Query Match 15.7%; Score 283.5; DB 1; Length 1115;
Best Local Similarity 25.8%; Pred. No. 1.6e-14;
Matches 75; Conservative 45; Mismatches 130; Indels 41; Gaps 7;

QY 44 NVTVRQGESATLRCTIDNRVTRVAMLRSTILYAGNDKWCIDPRVV-----LLSNTQ 95
DB 222 NATANLGQSVTLVCDAG-----PPEPTM-----SWTKDGEPIENEEDERSRSVS 268

QY 96 TOYSTEIONVDYDEGPTGCTVDNHPKTSRVHLIVQSPKIVEISSDINEGNISL 155
DB 269 DSEVTIRNVKNDDEAYVCIAENKAGEODASIHVKVFKPKITYVENQTAMELEEQT 328

QY 156 TCIATGREPTVTR-----HISPKAVGVSEDEYLEIOGITRQSGDYE 200
DB 329 TCRSGDPIPSITRTSTRNISSEODLDGHVVRSHRVSS---LTLASIQYRDAGEYM 385

QY 201 CSASNDVAAPVVRVKVTVNYPPISEAKGTGVPVGOKGLQCEASAVPSAEFQWKDK 260
DB 386 CRASNTIGQD-SQSIDLEFOYAPKIQGPVAVYTWEGNQVNITCEVFPSPATISWFRDQ 444

QY 261 RLIEGK-KGVKVENRPELSKLIFFNVSEHDYGNVTCVASNKLGHNTNASIML 310
DB 445 LLPSSNYSNIKIYNTPSASYLEVTDPSEDFNGYNCTAVNRIQGESLEFIL 495

```

Search completed: September 11, 2003, 03:03:27
Job time : 36 secs

Matches 75; Conservative 45; Mismatches 130; Indels 41; Gaps 7;

QY 44 NVTVROGESATLRCHIDNRVTRVAVLNRSTLYAGNDKWLDPV-----LLSWQ 95
 Db 222 NATANLQSVLLVCDAG-----PPEPTM-----SWTKDGPENEEDEERSVVS 268
 QY 96 TQYSEIQNVYDEGPTVCSQTDNHPKTSRVHLIVQSPKIVSEISSIDNEGNISL 155
 Db 269 DSEVTIRNVNDKAEYVCIENKAGEQDASHLKVFAKPKITYVENQTAMELEEQVTL 328
 QY 156 TCIATGRPEPTVWR-----HSPKAVGFVSEDEYLEIGOTIREQSGDYE 200
 Db 329 TCASGDDPISPTWTSTRNISSEQDLGHVMVSHARVSS---LTKSIQYRDAGSYM 385
 QY 201 CSASNDVAAPVVRKVTVPYPISEAKGTGVPVPGKGTLCQCEASAVPSAEFQYKDDK 260
 Db 386 CTASNTIGOD-SQSIDLEFQYAPKLAGPVAVYTWEQNVNITCEVAYPSATISWFRDQ 444
 QY 261 RLIEGK-KGVKVENRPFSLKIFNFVSEHDYGNVTCVASKNLGHTNASIML 310
 Db 445 LLPSSNYSNIKIYNTPSASYLEVTPDSEDFGNTAVNRIGQESLEFIL 495

RESULT 15

NCAM_MOUSE STANDARD: PRT; 1115 AA.

AC P13525; 061949;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-JUL-1993 (Rel. 26, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neural cell adhesion molecule 1, 180 kDa isoform precursor (N-CAM 180)
 DE (NCAM-180)
 GN NCAM1 OR NCAM
 OS Mus musculus (Mouse)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORM N-CAM 180).
 RC STRAIN=C57BL/6;
 RX MEDLINE=87246524; PubMed=3595563;
 RA Barthels D., Santoni M.J., Wille W., Ruppert C., Chaix J.C.,
 RA Hirsch M.R., Fontecilla-Camps J.C., Goridis C.;
 RT "Isolation and nucleotide sequence of mouse NCAM cDNA that codes for
 RT a Mr 79,000 polypeptide without a membrane-spanning region.";
 RL EMBO J. 5:907-914(1987).
 RN [2]
 RP SEQUENCE OF 529-1115 FROM N.A. (ISOFORM N-CAM 140).
 RC STRAIN=C57BL/6;
 RX MEDLINE=88057687; PubMed=3684567;
 RA Santoni M.-J., Barthels D., Barbas J.A., Hirsch M.-R., Steinmetz M.,
 RA Goridis C., Wille W.;
 RT "Analysis of cDNA clones that code for the transmembrane forms of the
 RT mouse neural cell adhesion molecule (NCAM) and are generated by
 RT alternative RNA splicing.";
 RL Nucleic Acids Res. 15:8621-8641(1987).
 RN [3]
 RP SEQUENCE OF 642-1115 FROM N.A. (ISOFORM N-CAM 180).
 RX MEDLINE=88203628; PubMed=3396534;
 RA Barbas J.A., Chaix J.C., Steinmetz M., Goridis C.;
 RT "Differential splicing and alternative polyadenylation generates
 RT distinct NCAM transcripts and proteins in the mouse.";
 RL EMBO J. 7:625-632(1988).
 RN [4]
 RP SEQUENCE OF 804-1081 FROM N.A. (ISOFORM N-CAM 180).
 RC STRAIN=C57BL/6; TISSUE=Brain;
 RX MEDLINE=88247737; PubMed=2454455;
 RA Barthels D., Vopper G., Wille W.;
 RT "NCAM-180, the large isoform of the neural cell adhesion molecule of
 RT the mouse, is encoded by an alternatively spliced transcript.";
 RL Nucleic Acids Res. 16:4217-4225(1988).
 RN [5]
 RP SEQUENCE OF 702-1115 FROM N.A. (ISOFORM N-CAM 140).

RC STRAIN=C57BL/6; TISSUE=Brain;
 RX MEDLINE=89251563; PubMed=2721486;
 RA Santoni M.J., Barthels D., Vopper G., Boned A., Goridis C., Wille M.;
 RT "Differential exon usage involving an unusual splicing mechanism
 RT generates at least eight types of NCAM cDNA in mouse brain.";
 RL EMBO J. 8:385-392(1989).
 RN [6]
 RP SEQUENCE OF 20-36.
 RX MEDLINE=86140120; PubMed=3512556;
 RA Rougon G., Marshak D.R.;
 RT "Structural and immunological characterization of the amino-terminal
 RT domain of mammalian neural cell adhesion molecules.";
 RL J. Biol. Chem. 261:3396-3401(1986).
 CC -I- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN
 CC NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF
 CC NEURITES, ETC.
 CC -I- SUBCELLULAR LOCATION: Type I membrane protein.
 CC -I- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=3;
 CC Name=N-CAM 180;
 CC IsoId=PI3595-1; Sequence=Displayed;
 CC Name=N-CAM 140;
 CC IsoId=PI3595-2; Sequence=VSP_002588;
 CC Name=N-CAM 120;
 CC IsoId=PI3594-1; Sequence=External;
 CC -I- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
 CC -I- SIMILARITY: Contains 5 immunoglobulin-like C2-type domains.
 CC -I- SIMILARITY: Contains 2 fibronectin type III domains.
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 CC -----
 CC EMBL; X07200; CAA30177.1;
 CC EMBL; Y00051; -; NOT_ANNOTATED_CDS.
 CC EMBL; X06328; CAA29641.1;
 CC EMBL; X07195; CAA30173.1;
 CC EMBL; X07244; CAA30230.1;
 CC EMBL; X15051; CAA33150.1;
 CC EMBL; X15052; CAA33151.1;
 CC PIR; A29673; IJMSNL.
 CC MGI; MGI:97281; Ncam1.
 CC InterPro; IPR003961; FN-III.
 CC InterPro; IPR007110; Ig-like.
 CC InterPro; IPR003598; Ig_C2.
 CC InterPro; IPR003006; Ig_MHC.
 CC Pfam; PF00041; fn3_2.
 CC Pfam; PF00047; Ig_5.
 CC SMART; SM00060; FN3_2.
 CC SMART; SM00408; IGC2; 5.
 CC PROSITE; PS50635; IG-Like; 5.
 CC Cell adhesion; Glycoprotein; Transmembrane; Repeat;
 CC Immunoglobulin domain; Alternative splicing; Signal; Heparin-binding.
 CC SIGNAL 1 19
 CC CHAIN 20 1115
 CC ISOFORM.
 CC NEURAL CELL ADHESION MOLECULE 1, 180 kDa
 CC DOMAIN 20 711
 CC EXTRACELLULAR (POTENTIAL).
 CC POTENTIAL.
 CC DOMAIN 712 729
 CC CYTOPLASMIC (POTENTIAL).
 CC DOMAIN 730 1115
 CC IG-LIKE C2-TYPE 1.
 CC DOMAIN 116 205
 CC IG-LIKE C2-TYPE 2.
 CC DOMAIN 212 302
 CC IG-LIKE C2-TYPE 3.
 CC DOMAIN 309 402
 CC IG-LIKE C2-TYPE 4.
 CC DOMAIN 407 492
 CC IG-LIKE C2-TYPE 5.
 CC DOMAIN 519 596
 CC FIBRONECTIN TYPE-III 1.
 CC DOMAIN 625 692
 CC FIBRONECTIN TYPE-III 2.
 CC DOMAIN 152 156
 CC HEPARIN-BINDING (POTENTIAL).
 CC DOMAIN 161 165
 CC HEPARIN-BINDING (POTENTIAL).
 CC PROBABLE.
 CC DISULFID 41 96

OY 44 NVTVRQGESATLRCTIDN-RVTRVAVLNR-----STLYAGNDKWCIDPR--VVLISN 93
 DB 33 DVVASVGSDFVEFNCTVEEVGOLSVSWAKRPSSEDTNSVLSMRNLSLDPQRYNVTVEG 92
 OY 94 TOTO---YSIEIQNVDDYDEGPTCSVOTDHPK-TSRVHLIVQVSPKIVE-ISSDISIN 148
 DB 93 PTGSAITVFRIONLEVDMDGPEYECQVLSATEKVKLSLQIKTPVIAENTPKSLT 152
 OY 149 EGNNTLSCTATGPEPTVTRH-----ISPKAVGFSEDEVEIOGITREOSDYECAS 204
 DB 153 EGNLELCHANGPKPTISWAREHNAVMP-AGHLLAETPLAIRSVHRMDRGYICIAQ 211
 OY 205 NDVAAPVRRVKNVTPVPPVIS-EAKGTGVPVQKGLQCEASVAFQYKDKREL 263
 DB 212 NGEQDPKRLRVEFRPQIAVQRPKIAQVSHSAELCSVQGYFAPTVVHRKGVPL- 270
 OY 264 EGKGVKVENR-----PFLSKLFFNVSEHDYGNVTVCASNKLGHTNASIMLF 311
 DB 271 QSRHHEVANTASSSGTTSLVLRIDSVGDEDFDYCNATKLGHADARHLF 323

RESULT 14

NCA2_MOUSE STANDARD: PRT: 725 AA.
 AC P13594; Q61950;
 DT 01-JAN-1990 (Rel. 13, Created)
 DT 01-JAN-1990 (Rel. 13, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neural cell adhesion molecule 1, 120 kDa isoform precursor (N-CAM 120)
 DE (NCAM-120)
 GN NCAM1 OR NCAM
 OS Mus musculus (Mouse)
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 OX NCBI_TaxID=10090;
 RN [1] SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6;
 RX MEDLINE=87246524; PubMed=3595563;
 RA Barthels D., Santoni M.-J., Willie W., Ruppert C., Calix J.-C.,
 RA Hirsch M.-R., Fontecilla-Camps J.-C., Goridis C.;
 RT "Isolation and nucleotide sequence of mouse NCAM cDNA that codes for
 RT a Mr 79,000 polypeptide without a membrane-spanning region.";
 RL EMBO J. 6:907-914(1987).
 RN [2]
 RP SEQUENCE OF 20-700 FROM N.A.
 RC STRAIN=C57BL/6;
 RX MEDLINE=89251563; PubMed=2721486;
 RA Santoni M.-J., Barthels D., Vopper G., Boned A., Goridis C., Willie M.;
 RT "Differential exon usage involving an unusual splicing mechanism
 RT generates at least eight types of NCAM cDNA in mouse brain.";
 RL EMBO J. 8:385-392(1989).
 RN [3]
 RP SEQUENCE OF 642-725 FROM N.A.
 RX MEDLINE=88283628; PubMed=3396534;
 RA Barthels J.A., Calix J.C., Steinmetz M., Goridis C.;
 RT "Differential splicing and alternative polyadenylation generates
 RT distinct NCAM transcripts and proteins in the mouse.";
 RL EMBO J. 7:625-632(1988).
 RN [4]
 RP SEQUENCE OF 20-36;
 RX MEDLINE=86140120; PubMed=3512556;
 RA Rougon G., Marshak D.R.;
 RT "Structural and immunological characterization of the amino-terminal
 RT domain of mammalian neural cell adhesion molecules.";
 RL J. Biol. Chem. 261:3396-3401(1986).
 CC -!- FUNCTION: THIS PROTEIN IS A CELL ADHESION MOLECULE INVOLVED IN
 CC NEURON-NEURON ADHESION, NEURITE FASCICULATION, OUTGROWTH OF
 CC NEURITES, ETC.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event=Alternative splicing; Named isoforms=3;

CC CC Name=N-CAM 120;
 CC CC IsoId=P13594-1; Sequence=Displayed;
 CC CC Name=N-CAM 180;
 CC CC IsoId=P13595-1; Sequence=External;
 CC CC Name=N-CAM 140;
 CC CC IsoId=P13595-2; Sequence=External;
 CC CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY.
 CC CC -!- SIMILARITY: Contains 5 immunoglobulin-like C2-type domains.
 CC CC -!- SIMILARITY: Contains 2 fibronectin type III domains
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 CC or send an email to license@isb-sib.ch).
 CC CC -----
 CC EMBL: Y00051; CAA68263.1; -
 CC EMBL: X15049; CAA33148.1; ALT_SEQ.
 CC EMBL: X07195; CAA30173.1; -
 CC PIR: A29673; IJMSNG.
 CC PDB: 2NCM; 12-MAR-97.
 CC PDB: 3NCM; 23-JUL-99.
 CC MGI: 97281; Ncam1.
 CC InterPro: IPR003961; FN-III.
 CC InterPro: IPR007110; Ig-like.
 CC InterPro: IPR003598; Ig-C2.
 CC InterPro: IPR003006; Ig_MHC.
 CC Pfam: PF00041; fn3; 2.
 CC Pfam: PF00047; ig; 5.
 CC SMART: SM00050; FN3; 2.
 CC SMART: SM00408; IG2; 5.
 CC PROSITE: PS50835; IG-LIKE; 5.
 CC Cell adhesion; Glycoprotein; Repeat; Alternative splicing;
 CC Immunoglobulin domain; Signal; Heparin-binding; GPI-anchor;
 CC 3D-structure. 1 19
 CC SIGNAL CHAIN 20 725
 CC FT FT NEURAL CELL ADHESION MOLECULE 1, 120 kDa
 CC FT FT ISOFORM.
 CC FT FT IG-LIKE C2-TYPE 1.
 CC FT FT IG-LIKE C2-TYPE 2.
 CC FT FT IG-LIKE C2-TYPE 3.
 CC FT FT IG-LIKE C2-TYPE 4.
 CC FT FT IG-LIKE C2-TYPE 5.
 CC FT FT FIBRONECTIN TYPE-III 1.
 CC FT FT FIBRONECTIN TYPE-III 2.
 CC FT FT HEPARIN-BINDING (POTENTIAL).
 CC FT FT HEPARIN-BINDING (POTENTIAL).
 CC FT FT PROBABLE.
 CC FT FT PROBABLE.
 CC FT FT PROBABLE.
 CC FT FT PROBABLE.
 CC FT FT N-LINKED (GLCNAC...) (POTENTIAL).
 CC FT FT N-LINKED (GLCNAC...) (POTENTIAL).
 CC FT FT N-LINKED (GLCNAC...) (POTENTIAL).
 CC FT FT N-LINKED (GLCNAC...) (POTENTIAL).
 CC FT FT N-LINKED (GLCNAC...) (POTENTIAL).
 CC FT FT ERSRVS -> DEKHFSD (IN REF. 2).
 CC FT FT V -> L (IN REF. 2).
 CC FT FT QD -> KT (IN REF. 2).
 CC FT FT T -> K (IN REF. 2).
 CC FT FT T -> R (IN REF. 2).
 CC FT FT D -> V (IN REF. 2).
 CC FT FT MOPSES -> SAATEF (IN REF. 2).
 CC FT FT PEL -> REP (IN REF. 2).
 CC FT FT H -> D (IN REF. 2 AND 3).
 CC FT FT 80296 MW; C2AEB8B4461C6B2F CRG64;
 CC FT FT 725 AA;
 CC SQ
 CC Query Match 15.7%; Score 283.5; DB 1; Length 725;
 CC Best Local Similarity 25.8%; Pred. No. 8.7e-15;

QY 68 WLNRSITLYAGNDKWCILDRVLLSNTOTQYSEITONVDVYDEGPTCSVOTDNIHKTSR 127
 DB 65 WLNRSITLYAGNDKWCILDRVLLSNTOTQYSEITONVDVYDEGPTCSVOTDNIHKTSR 124
 QY 128 VHLIVQSPKIVEISSDISINEGNSISLTCTATGPEPTVTRHISPAKGVFSEDEYLE 187
 DB 125 VHLIVQSPKIVEISSDISINEGNSISLTCTATGPEPTVTRHISPAKGVFSEDEYLE 183
 QY 188 IQGTTREQSDGECASNDVAAPVVRKVTNYVPYPISEAKGVGVGQGTQCEASA 247
 DB 184 IQGTTREQSDGECASNDVAAPVVRKVTNYVPYPISEAKGVGVGQGTQCEASA 243
 QY 248 VPSAEQFWKDKDRLEIEGKGVKVENRPLSKLIFENYSEHDYNTCVASNKLGHTNAS 307
 DB 244 VPSAEQFWKDKDRLEIEGKGVKVENRPLSKLIFENYSEHDYNTCVASNKLGHTNAS 303
 QY 308 IMLFPGGAVSEVSNSTSRAGCVNLLPLLVLLHLLKF 344
 DB 304 LPLNPPSTAYQITGSCADLFSCWSLALTLSVISIF 340

RESULT 13

AMAL DROME STANDARD; PRT; 333 AA.
 AC P15364; 09V3A5;
 DT 01-APR-1990 (Rel. 14, Created)
 DT 16-OCT-2001 (Rel. 40, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Amalgam protein precursor.
 GN AMA OR BG:DS00276.6 OR CG2198.
 OS Drosophila melanogaster (fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OX NCBI_TaxID=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Oregon-R;
 RX MEDLINE=99028670; PubMed=3141062;
 RA Seeger M.A., Haifley L., Kaufman T.C.;
 RT "Characterization of amalgam: a member of the immunoglobulin
 RL superfamily from Drosophila."
 RL Cell 55:589-600(1988).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Berkley;
 RX MEDLINE=99028670; PubMed=3141062;
 RA Palazzolo M.J.;
 RT "Complete sequence of the Antennapedia complex of Drosophila."
 RL Submitted (JAN-1999) to the EMBL/GenBank/DBJ databases.
 RN [3]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Berkley;
 RX MEDLINE=20196006; PubMed=10731132;
 RA Adams M.D., Ceiniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amanalides P.G., Scherier S.E., Li P.W., Hoskins R.A., Galie R.F.,
 RA Sutton R.G., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Brandon R.C., Rogers J.-H.C., Blazek R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Heit G., Nelson C.R., Miklos G.L.G.,
 RA Abrell J.F., Agbayani A., An H.-J., Andrews-Pfankuch C., Baldwin D.,
 RA Balow R.M., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 RA Beeson K.Y., Benos P.V., Berman B.P., Bhandari D., Bolshakov S.,
 RA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brothier P.,
 RA Burtis K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 RA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 RA DePamphilis M., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 RA Dodson K.B., Basu A., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 RA DuBin K.J., Evangelista C.C., Ferraz C., Ferrier S., Fleischmann W.,
 RA Foaier C., Gabrielian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 RA Harris N.L., Harvey D., Heiman T.J., Gu Z., Guan P., Harris M.,
 RA Hostin D., Houston K.A., Howland T.J., Wei M.-H., Ibegwam C.,

RA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 RA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 RA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 RA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 RA Minkulov G., Mishina N.V., Mobarry C., Morris J., Mohsrefi A.,
 RA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 RA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacleb J.M.,
 RA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 RA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 RA Shue B.C., Siden-Klamos I., Simpson M., Skupski M.P., Smith T.,
 RA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 RA Williams S.M., Woodage T.A., Weinstein G.M., Weissbach J.,
 RA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 RA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RT "The genome sequence of Drosophila melanogaster."
 RL Science 287:2185-2195(2000).
 RN [4]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Berkley; TISSUE=Embryo;
 EX MEDLINE=22426066; PubMed=12537569;
 RA Stapleton M., Carlson J.W., Brokstein P., Yu C., Champe M.,
 RA George R.A., Guarin H., Krommiller S., Pacleb J.M., Park S., Wan K.H.,
 RA Rubin G.W., Ceiniker S.E.;
 RT "A Drosophila full-length cDNA resource."
 RL Genome Biol. 3:RESEARCH0080.11-RESEARCH0080.8(2002).
 CC -1- SUBCELLULAR LOCATION: ATTACHED TO THE MEMBRANE BY A GPI-ANCHOR
 CC (POSSIBLE).
 CC -1- SIMILARITY: Contains 1 immunoglobulin-like V-type domain.
 CC -1- SIMILARITY: Contains 2 immunoglobulin-like C2-type domains.
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 CC or send an email to license@isb-sib.ch).
 DR EMBL; M23561; AAA28367.1; -
 DR EMBL; AE001572; AAD19797.1; -
 DR EMBL; AE003674; AAF54084.1; -
 DR EMBL; AY051911; AAK93335.1; -
 DR PIR; A31923; A31923.
 DR FlyBase; FBgn0000071; Ama.
 DR GO; GO:0005886; C:plasma membrane; IDA.
 DR InterPro; IPR007110; Ig-like.
 DR InterPro; IPR003598; Ig_C2.
 DR InterPro; IPR003006; Ig_MHC.
 DR Pfam; PF00047; Ig; 3.
 DR SMART; SM00406; IGC2; 2.
 DR PROSITE; PS50833; IG_Like; 3.
 KW Immunoglobulin domain; Glycoprotein; GPI-anchor; Signal; Repeat.
 FT SIGNAL 1 23 POTENTIAL.
 FT CHAIN 24 ? ? AMALGAM PROTEIN.
 FT PROPEP ? 333 REMOVED IN MATURE FORM (POTENTIAL).
 FT DOMAIN 25 128 IG-LIKE V-TYPE.
 FT DOMAIN 139 223 IG-LIKE C2-TYPE 1.
 FT DOMAIN 230 323 IG-LIKE C2-TYPE 2.
 FT DISULFID 46 117 PROBABLE.
 FT DISULFID 161 208 PROBABLE.
 FT DISULFID 251 307 PROBABLE.
 FT CARBOHYD 45 45 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 86 86 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 308 308 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CONFLICT 83 83 O -> K (IN REF. 1).
 SQ SEQUENCE 333 AA; 36387 MW; F644753DE3DB25F1 CRC64;

Query Match
 Best Local Similarity 29.7%;
 Matches 87; Conservative 43; Mismatches 136; Indels 27; Gaps 11;

[illegible]

RESULT 12	KILO_RAT	STANDARD;	PRT;	348 AA.
ID	KILO_RAT			
AC	Q920J6			
DT	30-Mar-2000 (Rel. 39, Created)			
DT	30-Mar-2000 (Rel. 39, Last sequence update)			
DT	15-SEP-2003 (Rel. 42, Last annotation update)			
DE	Kilon protein precursor. (Kindred of IGLON).			
OS	Rattus norvegicus (Rat).			
OC	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;			
OC	Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.			
ON	NCBI_TaxID=10116;			
OX	[1]			
RP	SEQUENCE FROM N.A., AND SEQUENCE OF 32-62.			
RP	MEDLINE=99175207; PubMed=10075727;			
RA	Funatsu N., Miyata S., Kumanogoh H., Shigeta M., Hamada K., Endo Y.,			
RA	Sokawa Y., Maekawa S.			
RT	"Characterization of a novel rat brain glycosylphosphatidylinositol-			
RT	anchored protein (Kilon), a member of the IGLON cell adhesion molecule			
RT	family".			
RL	J. Biol. Chem. 274:8224-8230(1999).			
CC	- FUNCTION: CELL-ADHESION (POTENTIAL).			
CC	- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.			
CC	- TISSUE SPECIFICITY: Highly expressed in brain.			
CC	- PTM: GLYCOSYLATED.			
CC	- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON			
CC	SUBFAMILY.			
CC	- SIMILARITY: Contains 3 immunoglobulin-like-C2-type domains.			
CC	THIS SWISS-PROT entry is copyright. It is produced through a collaboration			
CC	between the Swiss Institute of Bioinformatics and the EMBL outstation -			
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CC	entities requires a license agreement (See http://www.isb-sib.ch/announcement/			
CC	or send an email to license@isb-sib.ch).			
DR	EMBL; AB017139; BAA75649.1; .			
DR	InterPro: IPR007110; Ig-like.			
DR	InterPro: IPR003598; Ig_C2.			
DR	InterPro: IPR003006; Ig_MHC.			
DR	Pfam: PF00047; ig; 3.			
DR	SMART: SM00408; IGC2; 2.			
DR	PROSITE: PS50835; IG-LIKE; 3.			
KW	Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;			
FT	Repeat; Signal			
FT	SIGNAL	1	31	
FT	CHAIN	32	7	
FT	PROPEP	32	348	
FT	DOMAIN	32	128	
FT	DOMAIN	133	215	
FT	DOMAIN	219	307	
FT	DISULFID	154	112	
FT	DISULFID	154	197	
FT	DISULFID	239	291	
FT	CARBOHYD	67	67	
FT	CARBOHYD	149	149	
FT	CARBOHYD	269	269	
FT	CARBOHYD	280	280	
FT	CARBOHYD	288	288	
FT	CARBOHYD	301	301	
FT	CARBOHYD	348 AA;	37858 MW;	
SQ	SEQUENCE			37E9D1C7D24ACAB CRC64;

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Query Match.      45.18; Score 815; DB 1; Length 348;
Best Local Similarity 47.5%; Pred. No. 2.9e-5;
Matches 160; Conservative 66; Mismatches 101; Indels 10; Gaps 5;

QY      11 SISW--AIFTGLAALCLFCQGPVVRGSDATFP--KAMDNVTVRQGESATLRCCTIDNRVRVA 67

Db      11 SNOWLAALLSLCS-CLPAGQSV-----DFPAAAVDNNMLVRKGDATAVRLCYLDGASKGA 64

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Db 195 YECCAANEVASADVQVAVTVNYPTITKSKNEAATGQALLRCEASAVPPDPFEWYRD 254
QY 259 DKRLIEGKGVAVENRPFSLKIFVNSHDYGNVTCVASKNKLGHNTASIMLFGPGAVSE 318
Db 255 DTR-INSANGLEIKSTGQSLLVAVNTEHYGNVTCVAAKNLKVNTASLYLRG-TGR 312
QY 319 VSGTSRRAGCVLLPLLVHLHLK 343
Db 313 VDNGSVSLAVPLMLLAASLLCLSK 337

RESULT 10
LAMP HUMAN STANDARD; PRT; 338 AA.
AC Q13449;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Limbic system-associated membrane protein precursor (LSAMP).
GN LSAMP OR LAMP.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RZ SEQUENCE FROM N.A.
RX MEDLINE=96235133; PubMed=8666243;
RA Pimenta A.F., Fischer I., Levitt P.;
RT "cDNA cloning and structural analysis of the human limbic-system-
RT associated membrane protein (LAMP).";
RL Gene 170:189-195(1996).
CC -!- FUNCTION: MEDIATES SELECTIVE NEURONAL GROWTH AND AXON TARGETING.
CC CONTRIBUTES TO THE GUIDANCE OF DEVELOPING AXONS AND REMODELING OF
CC MATURE CIRCUITS IN THE LIMBIC SYSTEM. ESSENTIAL FOR NORMAL GROWTH
CC OF THE HYPOCAMPAL MOSSY FIBER PROJECTION (BY SIMILARITY).
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- TISSUE SPECIFICITY: EXPRESSED ON LIMBIC NEURONS AND FIBER TRACIS
CC AS WELL AS IN SINGLE LAYERS OF THE SUPERIOR COLLICULUS, SPINAL
CC CHORD AND CEREBELLUM.
CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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CC -----
CC EMBL; U41901; AAC50569.1;
CC PIR; JC4776; JC4776.
CC Genew; HGNC:6705; LSAMP.
CC MIM; 603241;
CC DR GC; GO:0007399; P:neurogenesis; TAS.
CC DR InterPro; IPR007110; IG-like.
CC DR InterPro; IPR003598; IG-C2.
CC DR InterPro; IPR003006; IG_MHC.
CC DR Pfam; PF00047; IG; 3.
CC DR SMART; SM00408; IGC2; 2.
CC DR PROSITE; PS50835; IG-Like; 3.
CC KW Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
CC Repeat; Signal.
CC SIGNAL 1 28
CC CHAIN 29 315
CC FT PROPEP 316 338
CC FT DOMAIN 29 122
CC FT DOMAIN 132 214
CC FT DOMAIN 219 304
CC FT DISULFID 53 111

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FT DISULFID 153 197
FT DISULFID 239 290
FT CARBOHYD 40 40
FT CARBOHYD 66 66
FT CARBOHYD 136 136
FT CARBOHYD 148 148
FT CARBOHYD 279 279
FT CARBOHYD 287 287
FT CARBOHYD 300 300
FT CARBOHYD 315 315
FT LIPID 315 315
SQ SEQUENCE 338 AA; 37308 MW; 0345F286DF5D92F CRC64;

Query Match 51.6%; Score 931.5; DB 1; Length 338;
Best Local Similarity 55.4%; Pred. No. 1.7e-66;
Matches 180; Conservative 60; Mismatches 80; Indels 5; Gaps 4;

QY 20 LAALCLF-QGVPRSGDATPKAMDNVTVROGESATLRCTIDNRVTRVAVLNRSITLYAG 78
Db 17 LELLCCLPTGLPVRSD--FNRGTDNITVROGDTAILRCVLEDKSKVAVLNRSIIFAG 74
QY 79 NDKWCLDPRVLLSNTQTOYSIEIQNVVDYDEGYTCVSQTDNHPKTSRVLHVQVSPKI 138
Db 75 HDKWSLDPRVELEKRHSLEYSRLQKVDYDEGYTCVSQTDHPKTSQVTLVIVQVPKI 134
QY 139 VEISSDISINEGNNISLTCTATGRPEPTVTRHISPKAVGFVSEDEYLEIOGITREGSD 198
Db 135 SNISDDVTNVEGNSVTLVCMANGREPEVTWHLTPTRGFESEEEYLEILGITREGSK 194
QY 199 YECASNDVAPVVRVVKVTVNYPYISEAKGTGVPVGKGTGLOCEASAVSAPFOYKD 258
Db 195 YECKAANEVSADYKQVKVTVNYPPTITESKNEATGQASLKCEASVAPFOFWYRD 254
QY 259 DKRLIEGKGVAVENRPFSLKIFVNSHDYGNVTCVASKNKLGHNTASIMLFGPGAVSE 318
Db 255 DTR-INSANGLEIKSTGQSLLVAVNTEHYGNVTCVAAKNLKVNTASLYLRG-TGR 312
QY 319 VSGTSRRAGCVLLPLLVHLHLK 343
Db 314 I-NGSISLAVPLMLLAASLLCLSK 337

RESULT 11
LAMP RAT STANDARD; PRT; 338 AA.
AC Q62813;
DT 01-NOV-1997 (Rel. 35, Created)
DT 01-NOV-1997 (Rel. 35, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Limbic system-associated membrane protein precursor (LSAMP).
GN LSAMP OR LAMP.
OS Rattus norvegicus (Rat).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
OX NCBI_TaxID=10116;
RN [1]
RP SEQUENCE FROM N.A., AND SEQUENCE OF 29-49.
RC TISSUE-Hippocampus; PubMed=7646886;
RA Pimenta A.F., Zhukareva V., Barbe M.F., Reinoso B.S., Grimley C.,
RA Henzel W., Fischer I., Levitt P.;
RT "The limbic system-associated membrane protein is an Ig superfamily
RT member that mediates selective neuronal growth and axon targeting.";
RL Number 15:287-297(1995).
CC -!- FUNCTION: MEDIATES SELECTIVE NEURONAL GROWTH AND AXON TARGETING.
CC CONTRIBUTES TO THE GUIDANCE OF DEVELOPING AXONS AND REMODELING OF
CC MATURE CIRCUITS IN THE LIMBIC SYSTEM. ESSENTIAL FOR NORMAL GROWTH
CC OF THE HYPOCAMPAL MOSSY FIBER PROJECTION.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- TISSUE SPECIFICITY: EXPRESSED MOSTLY BY NEURONS COMPRISES LIMBIC-
CC ASSOCIATED CORTICAL AND SUBCORTICAL REGIONS THAT FUNCTION IN
CC COGNITION, EMOTION, MEMORY, AND LEARNING.
CC -!- DEVELOPMENTAL STAGE: FIRST DETECTED AT E15-16, AT STAGE E20 IT IS

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FT SIGNAL 1 27 BY SIMILARITY
 FT CHAIN 28 322
 FT PROPEP 323 345 MOLECULE N.A.
 FT DOMAIN 323 345 REMOVED IN MATURE FORM (POTENTIAL)
 FT DOMAIN 136 219 IG-LIKE C2-TYPE 1.
 FT DOMAIN 223 310 IG-LIKE C2-TYPE 2.
 FT DISULFID 57 115 IG-LIKE C2-TYPE 3.
 FT DISULFID 157 202 POTENTIAL.
 FT DISULFID 244 296 POTENTIAL.
 FT CARBOHYD 44 44 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 70 70 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 140 140 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 285 285 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 293 293 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 306 306 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT LIPID 322 322 GPI-ANCHOR (POTENTIAL).
 FT VARSPLIC 1 27 MGCGYLFELFKLVVSLRLFLVPT -> MYHPAYWIVF
 FT SATALLFIP (in isoform 2).
 FT SEQUENCE 345 AA; 38067 MW; A3181B0753F9658E CRC64;
 FT /FTIG-VSP_002612.

Query Match 69.7%; Score 1259; DB 1; Length 345;
 Best Local Similarity 71.2%; Pred. No. 2.1e-92;

Matches 240; Conservative 34; Mismatches 59; Indels 4; Gaps 2;

QY 12 ISNAIFGLAALCF--OGVPRSGDGFPRKMDNVTVRGESATLRCTIDNRVTRVAM 68
 DB 9 LPMKLVVYSLFLVPTGVPVRSRGDGFPRKMDNVTVRGESATLRCTIDNRVTRVAM 68
 QY 69 LNRSTILYAGNDKCLDRVLLSNTQTOYSTIEIONVDYDEGYTCVOTDNHPTSRV 128
 DB 69 LNRSTILYAGNDKSIDRVLLSNTQTOYSTIEIONVDYDEGYTCVOTDNHPTSRV 128
 QY 129 HLIVQVSPKIVEISDINSGNNISLTGIATGRPEPTVTRHISPK-AVGFSVEDEYLE 187
 DB 129 HLIVQVPPQIMISSDIIVNEISSVILLCLAGREPTVTRHLSVKEGQGFVSEDEYLE 188
 QY 188 IQGITEQSGDECSASNDVAPVRRVKTIVNPPYISEAKGTGVPVQKGTLOCEASA 247
 DB 189 ISDKRQSGEYECSDALNDVAPVRRVKTIVNPPYISEAKGTGVPVQKGTLOCEASA 248
 QY 248 VPSAEQWYKDKRIEKGKGVKNRPFSLKLIFFNVSEHDYGNVTCVASKNGLHTNAS 307
 DB 249 VPAAEQWYKDKRIEKGKGVKNRPFSLKLIFFNVSEHDYGNVTCVASKNGLHTNAS 308
 QY 308 IMLEFGGAVSEVSNGTSSRRAGCVLLPLLVLLHLKF 344
 DB 309 ITLYGPGAVIDGVNSASRALCLWLSGTFFFAHFFIKF 345

RESULT 9

LAMP_CHICK STANDARD; PRT; 338 AA.
 AC Q98919;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Limbic system-associated membrane protein precursor (E19S) (CHLAMP,
 DE G19-isoform).
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 OC NCBI-TaxID-9031;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE-Brain;
 RX MEDLINE-97157768; PubMed-9004047;
 RA Wilson D.J.A., Kim D.S., Clarke G.A., Marshall-Clarke S., Moss D.J.;
 K: "A family of glycoproteins (GP55), which inhibit neurite outgrowth,
 RT are members of the Ig superfamily and are related to OBAM,
 RC neurotrophin, LAMP and CEPU-1."

RL J. Cell Sci. 109:3129-3138(1996).
 RN [2] SEQUENCE FROM N.A.
 RP TISSUE-Brain;
 RA MEDLINE-97158596; PubMed-9215692;
 RT Brummendorf T., Spaltmann F., Treubert U.;
 RT "Cloning and characterization of a neural cell recognition molecule
 on axons of the retinotectal system and spinal cord.";
 RL Eur. J. Neurosci. 9:1105-1116(1997).
 CC -1- FUNCTION: MEDIATES SELECTIVE NEURONAL GROWTH AND AXON TARGETING.
 CC PROBABLY SERVES AS A RECOGNITION MOLECULE FOR THE FORMATION OF
 CC LIMBIC CONNECTIONS (BY SIMILARITY).
 CC -1- SUBCELLULAR LOCATION: ATTACHED TO THE MEMBRANE BY A GPI-ANCHOR (BY
 CC similarity).
 CC -1- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
 CC SUBFAMILY.
 CC -1- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
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 CC EMBL; Y08171; CAA69357.1;
 DR EMBL; 294720; CAB08115.1;
 DR InterPro: IPR007110; Ig-like.
 DR InterPro: IPR003598; Ig-C2.
 DR InterPro: IPR003006; Ig_MHC.
 DR Pfam: PF00047; Ig; 3;
 DR SMART: SM00408; IGC2; 2;
 DR PROSITE: PS50935; IGLIKE; 3;
 DR Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
 KW Repeat; Signal;
 FT SIGNAL 29 338 POTENTIAL.
 FT CHAIN 29 338 LIMBIC SYSTEM-ASSOCIATED MEMBRANE
 FT PROPEP 29 338 REMOVED IN MATURE FORM (POTENTIAL).
 FT DOMAIN 29 322 IG-LIKE C2-TYPE 1.
 FT DOMAIN 132 214 IG-LIKE C2-TYPE 2.
 FT DOMAIN 219 306 IG-LIKE C2-TYPE 3.
 FT DISULFID 53 111 POTENTIAL.
 FT DISULFID 153 197 POTENTIAL.
 FT DISULFID 239 290 POTENTIAL.
 FT CARBOHYD 40 40 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 66 66 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 136 136 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 148 148 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 279 279 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 287 287 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 300 300 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 315 315 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 338 AA; 37394 MW; 8FA4A60AD98426B4 CRC64;
 Query Match 52.0%; Score 938.5; DB 1; Length 338;
 Best Local Similarity 56.0%; Pred. No. 4.7e-67;
 Matches 182; Conservative 56; Mismatches 82; Indels 5; Gaps 4;
 QY 20 LAALCLF-QGVPRSGDGFPRKMDNVTVRGESATLRCTIDNRVTRVAMLRSTLYAG 78
 DB 17 LRLCLLPTGLPVRVD--FTRGTDNITVRGDTAILRCFVDRSKVAMLRNRSIIIFAG 74
 QY 79 NDKWCLDRVLLSNTQTOYSTIEIONVDYDEGYTCVOTDNHPTSRVHLIVQVSPKI 138
 DB 75 EDKSLDRPVELEKRPLEYSRLQKVDVDEGYTCVOTDNHPTSRVHLIVQVSPKI 134
 QY 139 VEISDSISINSGNNISLTGIATGRPEPTVTRHISPKAVGFSVEDEYLEIQITREOSGD 198
 DB 135 SNISDITVNEGNSVTLVCMANGREPVTWRLHITGKFEGESEYELIIGITREOSGK 194
 QY 199 YECASNDVAAPVVRRVKTIVNPPYISEAKGTGVPVQKGTLOCEASAVPSAEFQWYKD 258

QY 8 MNSTSWAIFGLTGLAALCLFQGVVPSRSGDTPFKAMDNVTVRQGESATLCTIDNRVTRVA 67
 DB 1 MYHPACWTFVATTALLFIPGVPSRSGDTPFKAMDNVTVRQGESATLCTIDNRVTRVA 60
 QY 68 WLNSTILYAGNDKWCCLDPVLLNTQYISIQNVVDYDEGPTVCSVQTDNHPKTSR 127
 DB 61 WLNSTILYAGNDKWCCLDPVLLNTQYISIQNVVDYDEGPTVCSVQTDNHPKTSR 120
 QY 128 VHLIVQVSPKIVEISSDISINEGNNISLCTATGRPEPTVTRHISPKAVGFVSEDEYLE 187
 DB 121 VHLIVQVSPKIVEISSDISINEGNNISLCTATGRPEPTVTRHISPKAVGFVSEDEYLE 180
 QY 188 IOGITREQSGDYECASNDVAAPVRRVVKVTVNPPYISAKGTGVPVQKGTLCQCEASA 247
 DB 181 ITGITREQSGDYECASNDVAAPVRRVVKVTVNPPYISAKGTGVPVQKGTLCQCEASA 240
 QY 248 VPSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 307
 DB 241 VPSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 300
 QY 308 IMLFGGAVSEVSGTSRRAG--CWLPLLVLLHLLKF 344
 DB 301 ILYGFGAVHDSGNAASRAAGLCLE--ATLLARELLDF 337

RESULT 6

OPCM_HUMAN STANDARD; PRT; 345 AA.
 AC Q14982;
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DE 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Opioid binding protein/cell adhesion molecule precursor (OB CAM)
 DE (Opioid-binding cell adhesion molecule) (OPCML)
 GN OPCML OR OB CAM.
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Occipital cortex;
 RX MEDLINE=95237612; PubMed=7721093;
 RA Shark K.B., Lee N.M.;
 RT "Cloning, sequencing and localization to chromosome 11 of a cDNA
 RT encoding a human opioid-binding cell adhesion molecule (OB CAM).";
 RL Gene 155:213-217(1995).
 CC -!- FUNCTION: Binds opioids in the presence of acidic lipids; probably
 CC involved in cell contact.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (By
 CC similarity).
 CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
 CC SUPERFAMILY.
 CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
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 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL; L34774; AAA36387.1;
 CC PIR; JC4025; JC4025.
 CC DR GENE; HGNC:8143; OPCML.
 CC DR MIM; 600632;
 CC DR GO; GO:0005887; C: integral to plasma membrane; TAS.
 CC DR GO; GO:0004985; F: opioid receptor activity; TAS.
 CC DR GO; GO:0007155; P: cell adhesion; TAS.
 CC DR GO; GO:0008038; P: neuronal cell recognition; TAS.
 CC DR InterPro; IPR007110; Ig-like.

DR InterPro; IPR003598; Ig_c2.
 DR InterPro; IPR003006; Ig_MHC.
 DR Pfam; PF00047; Ig_3.
 DR SMART; SM00408; IGC2; 12.
 DR PROSITE; PS00835; IG-LIKE; 3.
 KW Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
 KW Repeat; Signal.
 FT SIGNAL 1 27 BY SIMILARITY.
 FT CHAIN 28 322 OPIOID BINDING PROTEIN/CELL ADHESION
 FT PROPEP 323 345 MOLECULE.
 FT DOMAIN 39 126 REMOVED IN MATURE FORM (POTENTIAL).
 FT DOMAIN 136 219 IG-LIKE C2-TYPE 1.
 FT DOMAIN 223 310 IG-LIKE C2-TYPE 2.
 FT DISULFID 57 115 IG-LIKE C2-TYPE 3.
 FT DISULFID 157 202 POTENTIAL.
 FT DISULFID 244 296 POTENTIAL.
 FT CARBOHYD 44 44 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 70 70 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 140 140 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 285 285 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 293 293 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT CARBOHYD 306 306 N-LINKED (GLCNAC. .) (POTENTIAL).
 FT LIPID 322 322 GPI-ANCHOR (POTENTIAL).
 SO SEQUENCE 345 AA; 38007 MW; E7ADI7BEAIAA3FF4 CRC64;
 Query Match 70.2%; Score 1268; DB 1; Length 345;
 Best Local Similarity 71.2%; Pred. No. 4.1e-93;
 Matches 240; Conservative 37; Mismatches 56; Indels 4; Gaps 2;
 QY 12 ISWAIFGLTGLAALCLF---QGVPSRSGDTPFKAMDNVTVRQGESATLCTIDNRVTRVA 68
 DB 9 LPWCLVVSRLLEFLVPTGVPVPSRSGDTPFKAMDNVTVRQGESATLCTIDNRVTRVA 68
 QY 69 LNRSTILYAGNDKWCCLDPVLLNTQYISIQNVVDYDEGPTVCSVQTDNHPKTSR 128
 DB 69 LNRSTILYAGNDKWCCLDPVLLNTQYISIQNVVDYDEGPTVCSVQTDNHPKTSR 128
 QY 129 HLIQVSPKIVEISSDISINEGNNISLCTATGRPEPTVTRHISPK-avgfVSEDEYLE 187
 DB 129 HLIQVSPKIVEISSDISINEGNNISLCTATGRPEPTVTRHISPK-avgfVSEDEYLE 188
 QY 188 IOGITREQSGDYECASNDVAAPVRRVVKVTVNPPYISAKGTGVPVQKGTLCQCEASA 247
 DB 189 ISDIKRDQSGDYECASNDVAAPVRRVVKVTVNPPYISAKGTGVPVQKGTLCQCEASA 248
 QY 248 VPSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 307
 DB 249 VPSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNAS 308
 QY 308 IMLFGGAVSEVSGTSRRAGCWLPLLVLLHLLKF 344
 DB 309 ILYGFGAVHDSGNAASRAAGLCLEWLSGTLAHEFFIEF 345

RESULT 7

OPCM_BOVIN STANDARD; PRT; 345 AA.
 AC P11634;
 DT 01-OCT-1989 (Rel. 12, Created)
 DT 01-OCT-1989 (Rel. 12, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Opioid binding protein/cell adhesion molecule precursor (OB CAM)
 DE (Opioid-binding cell adhesion molecule) (OPCML).
 GN OPCML OR OB CAM OR OCM.
 OS Bos taurus (Bovine).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Cetartiodactyla; Ruminantia; Pecora; Bovidae;
 OC Bovidae; Bovinae; Bos.
 OX NCBI_TaxID=9913;
 RN [1]
 RP SEQUENCE FROM N.A.; AND PARTIAL SEQUENCE.
 RC TISSUE=Brain;

REMARK: Contains 3 immunoglobulin-like C2-type domains.

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Query Match 81.8%; Score 1477.5; DB 1; Length 353;
Best Local Similarity 78.6%; Pred. NO. 1.le-109;
Matches 276; Conservative 32; Mismatches 32; Indels 11; Gaps 1;

CC	EMBL	Y08170	: CAB41420.1	1	20	BY SIMILARITY.
CC	InterPro	IPR007110	: IG-Like.	21	317	NEURITE INHIBITOR GP55-A (POTENTIAL).
DR	InterPro	IPR003598	: IG-C2.	318	337	REMOVED IN MATURE FORM (POTENTIAL).
DR	InterPro	IPR003006	: IG_MHC.	32	119	IG-LIKE C2-TYPE 1.
DR	Pfam	PF00047	: IG_3.	199	211	IG-LIKE C2-TYPE 2.
DR	SMART	SM00408	: IGC2: 2.	215	302	IG-LIKE C2-TYPE 3.
DR	PROSITE	PS50835	: IG-LIKE; 3.	50	108	POTENTIAL.
DR	Immunoglobulin domain		: Cell adhesion; Glycoprotein; GPI-anchor;			POTENTIAL.
CC	Repeat		: Signal.	1	20	POTENTIAL.
CC	FT	SIGNAL		21	317	NEURITE INHIBITOR GP55-A (POTENTIAL).
CC	FT	CHAIN		318	337	REMOVED IN MATURE FORM (POTENTIAL).
CC	FT	PROPEP		32	119	IG-LIKE C2-TYPE 1.
CC	FT	DOMAIN		199	211	IG-LIKE C2-TYPE 2.
CC	FT	DOMAIN		215	302	IG-LIKE C2-TYPE 3.
CC	FT	DISULFID		50	108	POTENTIAL.
CC	FT	DISULFID		150	194	POTENTIAL.
CC	FT	DISULFID		236	288	POTENTIAL.
CC	FT	CARBOHYD		133	133	N-LINKED (GLCNAC. .) (POTENTIAL).
CC	FT	CARBOHYD		277	277	N-LINKED (GLCNAC. .) (POTENTIAL).
CC	FT	CARBOHYD		285	285	N-LINKED (GLCNAC. .) (POTENTIAL).
CC	FT	CARBOHYD		298	298	N-LINKED (GLCNAC. .) (POTENTIAL).
CC	FT	SEQUENCE		337	348	BAE71755185651E CRG664;

Query Match 72.3%; Score 1305; DB 1; Length 337;
Best Local Similarity 73.2%; Pred. NO. 4.7e-96;
Matches 248; Conservative 34; Mismatches 53; Indels 4; Gaps 2;

Db 189 QGITREOSGEYECASNDVAAPVRRVVKVTVNPPVISEAKGTGVPVQKGTLOCEASAV 248
 QY 249 PSAEQWYKDDRLLEGKGVKVENRPFSLKTFNFVSEHDYGNVTCVASKNGLHTNASI 308
 Db 249 PSAEQWYKDDRLLEGKGVKVENRPFSLKTFNFVSEHDYGNVTCVASKNGLHTNASI 308
 QY 309 MLEFGGAVSEVNGTSRRAGCWLPLLVLLHLKLF 344
 Db 309 MLEFGGAVSEVNGTSRRAGCWLPLLVLLHLKLF 344

RESULT 3

NTRL_RAT
 AC Q62718; STANDARD; PRT; 344 AA.
 DT 01-NOV-1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neurotrophin precursor (GP65).
 OS Rattus norvegicus (Rat).
 OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
 OC Mammalia; Euthera; Rodentia; Sciurognathi; Muridae; Murinae; Rattus.
 OX NCBI_TaxID=10116;
 RN [1]
 RP SEQUENCE FROM N.A., AND SEQUENCE OF 217-229.
 RC STRAIN-Sprague-Dawley;
 RX MEDLINE=95198094; PubMed=7891157;
 RA Struyk A.F., Canoll P.D., Wolfgang M.J., D'Eustachio P.,
 RA Salzer J.L.;
 RT "Cloning of neurotrophin defines a new subfamily of differentially
 expressed neural cell adhesion molecules.";
 RL J. Neurosci. 15:2141-2156(1995).
 CC -!- FUNCTION: Neural cell adhesion molecule.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
 CC -!- TISSUE SPECIFICITY: CENTRAL NERVOUS SYSTEM.
 CC -!- DEVELOPMENTAL STAGE: EXPRESSED AT HIGH LEVELS IN SEVERAL
 CC -!- DEVELOPING PROJECTION SYSTEMS: IN NEURONS OF THE THALAMUS
 CC -!- SUPRATENTORIAL AND LOWER CORTICAL LAMINAE IN THE FOREBRAIN AND IN THE
 CC -!- PONTINE NUCLEUS, CEREBELLAR GRANULE CELLS, AND PURKINJE CELLS IN
 CC -!- THE HINDBRAIN.
 CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
 CC -!- SUBFAMILY.
 CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.

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 or send an e-mail to ise@isb-sib.ch).

or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

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or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

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or send an e-mail to ise@isb-sib.ch.

or send an e-mail to ise@isb-sib.ch.

FT CARBOHYD 152 152 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 216 216 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 284 284 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 292 292 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 305 305 N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 321 321 N-LINKED (GLCNAC...) (POTENTIAL).
 FT LIPID 321 321 GPI-ANCHOR (POTENTIAL).
 SQ SEQUENCE 344 AA: 37998 MW: 63935 CB39BE53B3B224 CRC64;
 Query Match 90.88; Score 1639.5; DB 1; Length 344;
 Best Local Similarity 92.98; Pred. No. 1.6e-122;
 Matches 312; Conservative 9; Mismatches 12; Indels 3; Gaps 1;
 QY 12 ISWATITGLAALCLF---QGVPRSGDATFFKAMDNVTVRQGESATLCTIDNRVTVAV 68
 Db 9 LPWKCLVVSLLRLFLVPTGVPVRSRSGDATFFKAMDNVTVRQGESATLCTIDNRVTVAV 68
 QY 69 LNRSTLYAGNDKWLDPVRLVLSNTQTYISIEIONVDYDVGPTCTSVQTDNHPKTSRV 128
 Db 69 LNRSTLYAGNDKWLDPVRLVLSNTQTYISIEIONVDYDVGPTCTSVQTDNHPKTSRV 128
 QY 129 HLIVQSPKIVEISSDISISNEGNNISLTCIATGRPEPTVTVRHHISPKAVGFVSEDEYLEI 188
 Db 129 HLIVQSPKIVEISSDISISNEGNNISLTCIATGRPEPTVTVRHHISPKAVGFVSEDEYLEI 188
 QY 189 QGITREOSGEYECASNDVAAPVRRVVKVTVNPPVISEAKGTGVPVQKGTLOCEASAV 248
 Db 189 QGITREOSGEYECASNDVAAPVRRVVKVTVNPPVISEAKGTGVPVQKGTLOCEASAV 248
 QY 249 PSAEQWYKDDRLLEGKGVKVENRPFSLKTFNFVSEHDYGNVTCVASKNGLHTNASI 308
 Db 249 PSAEQWYKDDRLLEGKGVKVENRPFSLKTFNFVSEHDYGNVTCVASKNGLHTNASI 308
 QY 309 MLEFGGAVSEVNGTSRRAGCWLPLLVLLHLKLF 344
 Db 309 MLEFGGAVSEVNGTSRRAGCWLPLLVLLHLKLF 344

RESULT 4

CEPU_CHICK
 ID CEPU_CHICK STANDARD; PRT; 353 AA.
 AC Q90773; 1997 (Rel. 35, Created)
 DT 01-NOV-1997 (Rel. 35, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE CEPU-1 protein precursor.
 OS Gallus gallus (Chicken).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Archosauria; Aves; Neognathae; Galliformes; Phasianidae; Phasianinae;
 OC Gallus.
 OX NCBI_TaxID=9031;
 RN [1]
 RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
 RC TISSUE=Brain;
 RX MEDLINE=96370549; PubMed=8774445;
 RA Spallmann F., Bruemendorf T.;
 RT "CEPU-1, a novel immunoglobulin superfamily molecule, is expressed by
 developing cerebellar Purkinje cells.";
 RL J. Neurosci. 16:1770-1779(1996).
 CC -!- FUNCTION: IT MAY BE A CELLULAR ADDRESS MOLECULE SPECIFIC TO
 PURKINJE CELLS. IT MAY REPRESENT A RECEPTOR OR A SUBUNIT OF A
 RECEPTOR COMPLEX.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
 CC -!- ALTERNATIVE PRODUCTS:
 CC Event-Alternative splicing; Named isoforms=2;
 CC Name=1; Synonyms=Minor;
 CC IsoId=Q90773-1; Sequence=Displayed;
 CC Name=2; Synonyms=Major;
 CC IsoId=Q90773-2; Sequence=VSP_002607;
 CC -!- TISSUE SPECIFICITY: FOUND ON THE DENDRITES, SOMATA AND AXONS
 CC DEVELOPING PURKINJE CELLS. UNDETECTABLE ON OTHER NEURONS L⁺
 CC GOLGI OR GRANULE CELLS.
 CC -!- DEVELOPMENTAL STAGE: EXPRESSED BY DEVELOPING CEREBELL⁺

Thu Sep 11 16:21:00 2003
 CELLS EXPRESSING
 AFTER PURKINJE
 VENTRICULAR
 SUBFAM⁺
 -!- SIM⁺
 -!- SIM⁺

FT CARBOHYD 305 305 N-LINKED (GLCNAC...) (POTENTIAL);
 FT CARBOHYD 321 321 N-LINKED (GLCNAC...) (POTENTIAL);
 FT LIPID 321 321 GPI-ANCHOR (POTENTIAL);
 SQ SEQUENCE 344 AA; 37971 MW; DA4D12C295ABBE3A CRC64;
 Query Match 92.2%; Score 1665.5; DB 1; Length 344;
 Best Local Similarity 95.2%; Pred No 1.4e-124;
 Matches 320; Conservative 3; Mismatches 10; Indels 3; Gaps 1;
 QY 12 ISWAFITGLAALCLF---OGVPRVSGDATFFPKAMDNVTVRQGESATLRCCTIDNRTVAV 68
 DB 9 LPKCLVVSRLFLVPTGVPVRSQDATTFFKAMDNVTVRQGESATLRCCTIDNRTVAV 68
 QY 69 LNRSTILYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSVQVDNHPKTSRV 128
 DB 69 LNRSTILYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSVQVDNHPKTSRV 128
 QY 129 HLIVQSPKIVEISSDISISINEGNISLTCIATGRPEPTVWHRISP KAVGVSEDEYLEI 188
 DB 129 HLIVQSPKIVEISSDISISINEGNISLTCIATGRPEPTVWHRISP KAVGVSEDEYLEI 188
 QY 189 QGITRQSGDYECASNDVAAPVVRKVTNVPYISIEAKGTGVPVQKGTLOCESAV 248
 DB 189 QGITRQSGDYECASNDVAAPVVRKVTNVPYISIEAKGTGVPVQKGTLOCESAV 248
 QY 249 PSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNASI 308
 DB 249 PSAEFQYKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNASI 308
 QY 309 MLFGPGAVSEVSGTSRRAGCVLLPLVLHLLKRF 344
 DB 309 MLFGPGAVSEVSGTSRRAGCVLLPLVLHLLKRF 344
 RESULT 2
 NTRI_MOUSE STANDARD; PRT: 344 AA.
 AC 099PJO;
 DT 28-FEB-2003 (Rel. 41, Created)
 DT 28-FEB-2003 (Rel. 41, Last sequence update)
 DT 15-SEP-2003 (Rel. 42, Last annotation update)
 DE Neurotrophin precursor.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Mus.
 OX NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=ICR; TISSUE=Brain;
 RA Kim T.H., Choi S.C., Kim J., Jeon J.W., Kim K.D., Lee S.H.;
 RT "Cloning and expression of mouse neurotrophin gene in the developing
 RL nervous system.";
 RL Submitted (JUN-2000) to the EMBL/GenBank/DBJ databases.
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6; TISSUE=Eye;
 RA MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan H., Moore T., Max S.I., Wang J., Hsieh F.,
 RA Diatchenko L., Marusina K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Usdin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raha S.S., Loquellano N.A., Peters G.J., Abramson R.D., Mullaly S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Walek J.A., Gunaratne P.H.,
 RA Richards S., Worley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Whiting J., Helton E., Kettner M., Vadan A., Rodrigues S., Sanchez A.,
 RA Blakesley R.W., Touchman J.W., Green E.D., Dickinson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Butterfield Y.S.N., Krzywinski M.I., Skalska U., Smallus D.E.,

RA SCHNERCH A., SCHEIN J.E., JONES S.J.M., MARRA M.A.;
 RT "Generation and initial analysis of more than 15,000 full
 RL human and mouse cDNA sequences.";
 CC Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 CC -!- FUNCTION: Neural cell adhesion molecule.
 CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anch
 CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
 CC SUBFAMILY.
 CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.
 CC This SWISS-PROT entry is copyright. It is produced through a collaborati
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 CC or send an email to license@sib-sib.ch).
 CC EMBL; AF282980; RAK00276.1;
 CC EMBL; BC023307; RAK023307.1;
 CC InterPro; IPR007110; IG-like.
 CC InterPro; IPR003599; IG.
 CC InterPro; IPR003598; IG_C2.
 CC InterPro; IPR003006; IG_MHC.
 CC Pfam; PF00047; IG; 3.
 CC SMART; SM00409; IG; 3.
 CC SMART; SM00408; IGC2; 3.
 CC PROSITE; PS00835; IG_LIKE; 3.
 KW Immunoglobulin domain; Cell adhesion; Glycoprotein; GPI-anchor;
 KW Repeat; Signal.
 FT SIGNAL 1 31 POTENTIAL.
 FT CHAIN 32 321. NEUOTRPHIN
 FT PROPEP 322 344. REMOVED IN MATURE FORM (POTENTIAL).
 FT DOMAIN 39 126. IG-LIKE C2-TYPE 1.
 FT DOMAIN 136 218. IG-LIKE C2-TYPE 2.
 FT DOMAIN 222 309. IG-LIKE C2-TYPE 3.
 FT DISULFID 157 201. POTENTIAL.
 FT DISULFID 157 201. POTENTIAL.
 FT CARBOHYD 44 44. POTENTIAL.
 FT CARBOHYD 70 70. N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 152 152. N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 284 284. N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 292 292. N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 305 305. N-LINKED (GLCNAC...) (POTENTIAL).
 FT CARBOHYD 321 321. N-LINKED (GLCNAC...) (POTENTIAL).
 FT LIPID 321 321. GPI-ANCHOR (POTENTIAL).
 FT CONFLICT 75 75. L -> P (IN REF. 1).
 FT CONFLICT 92 92. S -> G (IN REF. 1).
 FT CONFLICT 119 119. T -> I (IN REF. 1).
 FT CONFLICT 187 187. E -> Q (IN REF. 1).
 FT CONFLICT 213 213. R -> P (IN REF. 1).
 FT CONFLICT 225 225. I -> F (IN REF. 1).
 SQ SEQUENCE 344 AA; 37984 MW; C885BBA52C148554 CRC64;
 Query Match 91.2%; Score 1647.5; DB 1; Length 344;
 Best Local Similarity 93.5%; Pred No 3.8e-123;
 Matches 314; Conservative 8; Mismatches 11; Indels 3; Gaps 1;
 QY 12 ISWAFITGLAALCLF---OGVPRVSGDATFFPKAMDNVTVRQGESATLRCCTIDNRTVAV 68
 DB 9 LPKCLVVSRLFLVPTGVPVRSQDATTFFKAMDNVTVRQGESATLRCCTIDNRTVAV 68
 QY 69 LNRSTILYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSVQVDNHPKTSRV 128
 DB 69 LNRSTILYAGNDKWCIDPRVLLSNTQYISIEIQNVYDDEGPTCSVQVDNHPKTSRV 128
 QY 129 HLIVQSPKIVEISSDISISINEGNISLTCIATGRPEPTVWHRISP KAVGVSEDEYLEI 188
 DB 129 HLIVQSPKIVEISSDISISINEGNISLTCIATGRPEPTVWHRISP KAVGVSEDEYLEI 188
 QY 189 QGITRQSGDYECASNDVAAPVVRKVTNVPYISIEAKGTGVPVQKGTLOCESAV 248
 DB 189 QGITRQSGDYECASNDVAAPVVRKVTNVPYISIEAKGTGVPVQKGTLOCESAV 248

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OM protein - protein search, using sw model

Run on: September 11, 2003, 02:51:48 ; Search time 34 Seconds
(without alignments)
475.800 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQPKMHSINSAIFTGL.....RRAGCVWLLPLVLHLLKLF 344

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 127863 seqs., 47026705 residues

Total number of hits satisfying chosen parameters: 127863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : SwissProt_41.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1665.5	92.2	344	1	NTRI_HUMAN
2	1647.5	91.2	344	1	NTRI_MOUSE
3	1639.5	90.8	344	1	NTRI_RAT
4	1477.5	81.8	353	1	CEPU_CHICK
5	1305	72.3	337	1	G55A_CHICK
6	1268	70.2	345	1	OPCM_HUMAN
7	1266	70.1	345	1	OPCM_BOVIN
8	1259	69.7	345	1	OPCM_RAT
9	938.5	52.0	338	1	LAMP_HUMAN
10	931.5	51.6	338	1	LAMP_MOUSE
11	926.5	51.3	338	1	LAMP_RAT
12	815	45.1	348	1	KILO_RAT
13	297.5	16.5	333	1	AMAL_DROME
14	283.5	15.7	725	1	NCA2_MOUSE
15	283.5	15.7	725	1	NCA1_MOUSE
16	279.5	15.5	1091	1	NCA1_RAT
17	277.5	15.4	858	1	NCA1_CHICK
18	277.5	15.4	1088	1	NCA1_XENLA
19	276	15.3	761	1	NCA2_HUMAN
20	276	15.3	848	1	NCA1_HUMAN
21	275.5	15.3	853	1	NCA1_BOVIN
22	270.5	15.0	1092	1	NCA2_XENLA
23	261.5	14.5	1010	1	CONT_CHICK
24	255	14.1	359	1	LACH_DROME
25	251.5	13.9	837	1	NCA2_MOUSE
26	250	13.8	349	1	LACH_SCHAM
27	249.5	13.8	1040	1	AXO1_HUMAN
28	246.5	13.6	1018	1	CONT_HUMAN
29	243.5	13.5	1021	1	CONT_RAT
30	243.5	13.5	1036	1	AXO1_CHICK
31	241.5	13.4	837	1	NCA2_HUMAN
32	241.5	13.4	1020	1	CONT_MOUSE
33	240	13.3	3707	1	PGBM_MOUSE

34	234.5	13.0	1040	1	AXO1_RAT
35	229	12.7	4391	1	PGBM_HUMAN
36	227.5	12.6	1051	1	PM77_CHICK
37	226	12.5	6632	1	UN89_CAEEL
38	221.5	12.3	862	1	CD22_MOUSE
39	221	12.2	2012	1	DSCA_HUMAN
40	220.5	12.2	896	1	FAS2_SCHAM
41	215.5	11.9	1302	1	NRC_DROME
42	211.5	11.7	873	1	FAS2_DROME
43	211.5	11.7	1070	1	PM77_HUMAN
44	211.5	11.7	1461	1	NEO1_HUMAN
45	210	11.6	1914	1	KMLS_HUMAN

ALIGNMENTS

RESULT 1
NTRI_HUMAN
ID NTRI_HUMAN STANDARD; PRT; 344 AA.
AC Q9P121;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 15-SEP-2003 (Rel. 42, Last annotation update)
DE Neurotrophin precursor (hnt).
GN NT.
OS Homo sapiens (Human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A.
RA Li G., Jin J., Pan X., Hu S., Yuan J., Qiang B.;
RT "Cloning and identification of human neurotrophin full length cDNA."
RL Submitted (FEB-1999) to the EMBL/GenBank/DBJ databases.
CC -!- FUNCTION: Neural cell adhesion molecule.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor.
CC -!- SIMILARITY: BELONGS TO THE IMMUNOGLOBULIN SUPERFAMILY. IGLON
CC -!- SIMILARITY: Contains 3 immunoglobulin-like C2-type domains.

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CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch)

CC EMBL; AF126426; AAF37591.1;
DR GO; GO:0008038; P:neuronal cell recognition; TAS.
DR InterPro; IPR007110; Ig-like.
DR InterPro; IPR003598; Ig-C2.
DR InterPro; IPR003006; Ig_MHC.
DR Pfam; PF00047; Ig; 3.
DR SMART; SM00408; IGG2; 2.

DR PROSITE; PS50835; IG-LIKE; 3.
KW Immunoglobulin domain; Cell adhesion; G
KW Repeat; Signal;
FT SIGNAL; 1..31
FT CHAIN; 32..321
FT PROPEP; 322..344
FT DOMAIN; 35..126
FT DOMAIN; 136..218
FT DOMAIN; 222..309
FT DOMAIN; 309..309
FT DISULFID; 57..115
FT DISULFID; 157..201
FT DISULFID; 243..295
FT CARBOHYD; 44..44
FT CARBOHYD; 70..70
FT CARBOHYD; 152..152
FT CARBOHYD; 284..284
FT CARBOHYD; 292..292

Db 301 LGHTNASIMLFGPAGVSEVSNGTSSRRAGCVWLLPLLVHLLKF 344
 RESULT 15
 AAM40499
 ID AAM40499 standard; Protein; 355 AA.
 AC AAM40499;
 XX
 DT 22-OCT-2001 (first entry)
 DE Human polypeptide SEQ ID NO 5430.
 KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
 KW peripheral nervous system; neuropathy; central nervous system; CNS;
 KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
 KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
 KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
 KW leukaemia.
 XX
 OS Homo sapiens.
 PN W0200153312-A1.
 PD 26-JUL-2001.
 PF 26-DEC-2000; 2000WO-US34263.
 PR 21-JAN-2000; 2000US-0488725.
 PR 25-APR-2000; 2000US-0552317.
 PR 09-JUL-2000; 2000US-0598042.
 PR 19-JUL-2000; 2000US-0620312.
 PR 03-AUG-2000; 2000US-0653450.
 PR 14-SEP-2000; 2000US-0662191.
 PR 19-OCT-2000; 2000US-0693036.
 PR 29-NOV-2000; 2000US-0727344.
 PA (HYSE-) HYSEQ INC.
 PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
 PI Wang J, Wang J, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
 PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
 DR WPT: 2001-442253/47.
 DR N-PSDB; AA159655.
 XX
 PT Novel nucleic acids and polypeptides, useful for treating disorders
 PT such as central nervous system injuries -
 PS Example 2; SEQ ID NO 5430; 10078pp; English.
 XX
 CC The invention relates to human nucleic acids (AA157798-AA161369) and
 CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
 CC immunosuppressant and cytostatic activity. The polynucleotides are useful
 CC in gene therapy. A composition containing a polypeptide or polynucleotide
 CC of the invention may be used to treat diseases of the peripheral nervous
 CC system, such as peripheral nervous injuries, peripheral neuropathy and
 CC localised neuropathies and central nervous system diseases, such as
 CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
 CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
 CC utilisation of the activities such as: immune system suppression,
 CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
 CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
 CC assays for receptor activity, arthritis and inflammation, leukaemia and
 CC C.N.S disorders.
 CC Note: The sequence data for this patent did not form part of the printed
 CC specification.
 XX
 SQ Sequence 355 AA:

Query Match 100.0%; Score 1806; DB 22; Length 355;
 Best Local Similarity 100.0%; Pred. No. 3.2e-149;

Matches	344;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	MKTTOPKMHNSISWALFTGLAALCLFQGVPRSGDATPPKAMDNVTVRQGESATLRCTID	60						
Db	12	MKTTOPKMHNSISWALFTGLAALCLFQGVPRSGDATPPKAMDNVTVRQGESATLRCTID	71						
QY	61	NRVTRVAMLRSTILYAGNDKWCCLDPKRVLLSNTQFQYSIEIQNVNDYDEGPTCVSQVD	120						
Db	72	NRVTRVAMLRSTILYAGNDKWCCLDPKRVLLSNTQFQYSIEIQNVNDYDEGPTCVSQVD	131						
QY	121	NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCTATGRPEPTVTVRHISPKAVGFV	180						
Db	132	NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCTATGRPEPTVTVRHISPKAVGFV	191						
QY	181	SEDEYLEIOGITREQSGDYECSSASNDVAAPVRRVKVTVPYPPYISEAKGTGYPVGOKGT	240						
Db	192	SEDEYLEIOGITREQSGDYECSSASNDVAAPVRRVKVTVPYPPYISEAKGTGYPVGOKGT	251						
QY	241	LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK	300						
Db	252	LQCEASAVPSAEFQWYKDDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK	311						
QY	301	LGHTNASIMLFGPAGVSEVSNGTSSRRAGCVWLLPLLVHLLKF	344						
Db	312	LGHTNASIMLFGPAGVSEVSNGTSSRRAGCVWLLPLLVHLLKF	355						

Search completed: September 11, 2003, 03:02:43
 Job time : 74 secs

PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US05520.
 PR 01-MAR-2001; 2001WO-US05666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747259.
 PR 28-FEB-2001; 2001US-0756438.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0806899.
 PR 22-MAR-2001; 2001US-0805744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0834208.
 PR 10-MAY-2001; 2001US-0834280.
 PR 18-MAY-2001; 2001US-0860218.
 PR 25-MAY-2001; 2001US-0866028.
 PR 01-JUN-2001; 2001US-0872035.
 PR 05-JUN-2001; 2001US-0874503.
 PR 14-JUN-2001; 2001US-0882636.
 PR 19-JUN-2001; 2001US-0886342.
 PR 21-JUN-2001; 2001US-0887879.
 PR 18-JUL-2001; 2001US-0908827.
 PR 06-AUG-2001; 2001US-0924419.
 PR 09-AUG-2001; 2001US-0927796.
 PR 16-AUG-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.
 (GETH) GENENTECH INC.
 PI Baker KP, Betesini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 DR WPI: 2003-148238/14.
 DR N-PSDB: ABX89328.
 XX
 XX Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PT and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PT are therapeutically useful for enhancing immune response and in cancer
 PT treatments
 XX
 PS Claim 12: Fig 376; 659pp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO132 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO154 and PRO186
 CC stimulate adrenal cortical insufficiency disorders. PRO154 and PRO186
 CC PRO943, PRO828, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VEGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1184, and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune response. PRO828, PRO826, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosa; AMD, PRO819, PRO813
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with
 CC decreased mesangial cell function such as Berger disease or other

CC nephropathies associated with dermatitis, herpetiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and
 CC are thus useful for treating sports injuries and arthritis. This
 CC is the amino acid sequence of a novel human PRO protein.
 XX
 SQ Sequence 344 AA;
 Query Match 100.0%; Score 1806; DB 24; Length 344;
 Best Local Similarity 100.0%; Pred. No 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKTQPKMHSISWALFTGLAALCLFQGVPRSGDATFFPKAMDNVTVRQGESATLRCTID 60
 DB 1 MKTQPKMHSISWALFTGLAALCLFQGVPRSGDATFFPKAMDNVTVRQGESATLRCTID 60
 QY 61 NRVTRVAVLNRSTILYAGNDKWCIDPRVYLLSNTQYISIEIQNVYDDEGPTCVSQT 120
 DB 61 NRVTRVAVLNRSTILYAGNDKWCIDPRVYLLSNTQYISIEIQNVYDDEGPTCVSQT 120
 QY 121 NHPKTSRVHLIVQSPKIVEISSISNEGNNISLFCIATGRPEPTVTRHISPKAVGFV 180
 DB 121 NHPKTSRVHLIVQSPKIVEISSISNEGNNISLFCIATGRPEPTVTRHISPKAVGFV 180
 QY 181 SEDEYLEIQITREQSDGYECSSASNDVAAPVVRVKTVYVPPYIIEAKGTGVPVGQKT 240
 DB 181 SEDEYLEIQITREQSDGYECSSASNDVAAPVVRVKTVYVPPYIIEAKGTGVPVGQKT 240
 QY 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
 DB 241 LQCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNK 300
 QY 301 LGHTNASIMLFGPGAVSEVSGTSRRAGCVWLLPLLVLLHLLKF 344
 DB 301 LGHTNASIMLFGPGAVSEVSGTSRRAGCVWLLPLLVLLHLLKF 344
 RESULT 14
 ABU61159
 ID ABU61159 standard; Protein; 344 AA.
 XX
 AC ABU61159;
 XX
 DT 08-MAY-2003 (first entry)
 XX
 DE Human PRO337 polypeptide.
 XX
 KW Human; PRO polypeptide; secreted and transmembrane protein;
 KW Immune disorder; diabetes; hyper-insulinaemia; hypo-insulinaemia;
 KW cardiac insufficiency; nervous system disorder; kidney disorder;
 KW bone disorder; cartilage disorder; arthritis; tumour; wound healing;
 KW genetic disorder; cytostatic; antidiabetic; antinflammatory;
 KW antiarthritic; anti-tumour; vulnerary; antianaemic; dermatological;
 KW cardiant.
 XX
 OS Homo sapiens.
 XX
 US2002169284-A1
 PN
 PD 14-NOV-2002.
 XX
 PF 16-OCT-2001; 2001US-0978697.
 XX
 PR 07-OCT-1998; 98WO-US21141.
 PR 20-NOV-1998; 98WO-US24855.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28565.

CC linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
 CC cell expressing the polypeptides. The bioactive molecule causes cell
 CC death. (ii) Is useful as hybridisation probes, in chromosome and gene
 CC mapping, in generation of antisense RNA and DNA, in the preparation of
 CC PRO polypeptide, for generating transgenic animals or knockout animals
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, and for the genetic analysis of
 CC individuals with genetic disorders, in gene therapy, and for chromosome
 CC identification. (i) Or Ab is useful for the preparation of medicament for
 CC treating conditions which are responsive to the PRO polypeptide or
 CC anti-PRO antibody e.g. a tumour. (ii) Is useful for treating obesity,
 CC diabetes or hypo- or hyper-insulinemia, and cardiac insufficiency
 CC disorders, for inhibiting tumour growth, enhances vascular permeability
 CC and immune response, for inducing regeneration of auditory hair cells and
 CC for treating hearing loss in mammals, and for treating bone and/or
 CC cartilage disorders such as sports injuries and arthritis. This is the
 CC amino acid sequence of a novel human secreted and transmembrane
 CC polypeptide associated oligonucleotide.

XX Sequence 344 AA;

Query Match 100.0%; Score 1806; DB 24; Length 344;
 Best Local Similarity 100.0%; Pred No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MKTIQPKHNSISWAIETGLAALCLFGVPSGDAFPKAMDNVTVROGESATLRCTID 60
 DB 1 MKTIQPKHNSISWAIETGLAALCLFGVPSGDAFPKAMDNVTVROGESATLRCTID 60
 QY 61 NRVTRVAMLNSTLYAGNDKWCIDPRVLLSNQTQYSIEIONVDYDEGYTCVQTD 120
 DB 61 NRVTRVAMLNSTLYAGNDKWCIDPRVLLSNQTQYSIEIONVDYDEGYTCVQTD 120
 QY 121 NPKTSRHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPRAGVF 180
 DB 121 NPKTSRHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPRAGVF 180
 QY 181 SEDEYLETOGTREQSGDYECSSASNDVAAPVVRVKKVTNYPPIYSEAKGTGVPVQKGT 240
 DB 181 SEDEYLETOGTREQSGDYECSSASNDVAAPVVRVKKVTNYPPIYSEAKGTGVPVQKGT 240
 QY 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNITCVASNK 300
 DB 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNITCVASNK 300
 QY 301 LGHTNASIMLFGPGAVSEVSNGTSSRAGCVLLPLVLLHLLKF 344
 DB 301 LGHTNASIMLFGPGAVSEVSNGTSSRAGCVLLPLVLLHLLKF 344

RESULT 13

ABU5983B
 ID ABU5983B standard; Protein; 344 AA.
 XX
 AC ABU5983B;
 XX
 DT 13-MAY-2003 (first entry)
 XX
 DE Novel secreted and transmembrane protein PRO337.
 XX
 KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
 KW cardiac insufficiency disorder; cancer; tumour; immune response;
 KW adrenal cortical capillary endothelial growth; c-fos induction;
 KW vascular endothelial growth factor inhibition; VEGF inhibition;
 KW endothelial cell growth inhibitor; T-lymphocytes stimulation;
 KW retinal neurons cell survival; rod photoreceptor cell survival;
 KW retinal disorder; retinitis pigmentosa; kidney disorder;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
 KW chondrocyte redifferentiation; sports injury; arthritis.
 OS Homo sapiens.
 XX

PN US2003017563-A1.
 XX 23-JAN-2003.
 XX
 PF 07-MAY-2002; 2002US-0140808.
 XX
 PR 31-MAR-1997; 97WO-US05230.
 PR 12-JUN-1998; 98WO-US12456.
 PR 14-JUL-1998; 98WO-US14552.
 PR 28-AUG-1998; 98WO-US17888.
 PR 10-SEP-1998; 98WO-US18824.
 PR 14-SEP-1998; 98WO-US19093.
 PR 14-SEP-1998; 98WO-US19094.
 PR 14-SEP-1998; 98WO-US19177.
 PR 16-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 07-OCT-1998; 98WO-US21141.
 PR 29-OCT-1998; 98WO-US22991.
 PR 29-OCT-1998; 98WO-US22992.
 PR 20-NOV-1998; 98WO-US24855.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 20-APR-1999; 99WO-US08615.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 08-SEP-1999; 99WO-US20111.
 PR 13-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.

PR 30-DEC-1999; 99WO-US31274.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 10-MAR-2000; 2000WO-US06319.
 PR 15-MAR-2000; 2000WO-US06884.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US07532.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30952.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06320.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747259.
 PR 28-FEB-2001; 2001US-0796498.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 18-MAY-2001; 2001US-0860216.
 PR 25-MAY-2001; 2001US-0866028.
 PR 01-JUN-2001; 2001US-0866034.
 PR 05-JUN-2001; 2001US-0872035.
 PR 14-JUN-2001; 2001US-0886342.
 PR 19-JUN-2001; 2001US-0886342.
 PR 21-JUN-2001; 2001US-0887879.
 PR 06-AUG-2001; 2001US-0909827.
 PR 06-AUG-2001; 2001US-0924419.
 PR 16-AUG-2001; 2001US-0927796.
 PR 19-DEC-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.
 PA (GETH) GENENTECH INC.

XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX WPI; 2003-331925/31.
 DR N-PSDB; ACA04211.

XX New secreted and transmembrane nucleic acids and polypeptides,
 PT designated as PRO, useful for treating inflammation, organ failure,
 PT atherosclerosis, cardiac injury, infertility, birth defects, premature
 PT aging, AIDS, or cancer

XX PS
 XX PS
 CC The invention relates to an isolated nucleic acid comprising, or which is
 CC at least 80% identical to, or the full-length coding sequence of, any of
 CC the 275 nucleotide sequences encoding the corresponding PRO polypeptide
 CC (one of 275 secreted or transmembrane proteins). The nucleic acid
 CC further comprises the full-length coding sequence of the DNA deposited
 CC under American Type Culture Collection (ATCC) accession number in a list
 CC given in the specification. Also included are vectors and host
 CC cells for producing PRO proteins, PRO fusion proteins, anti-PRO
 CC antibodies, PRO extracellular domains and mature sequences, methods
 CC of detecting PRO proteins, methods for stimulating the release of
 CC TNF-alpha (tumour necrosis factor alpha) from human blood,
 CC (and the proliferation of differentiation of chondrocyte cells, the
 CC proliferation of, or gene expression in pericyte cells, the release or
 CC proteoglycans from cartilage, proliferation of inner ear utricular
 CC supporting cells, the proliferation of T-lymphocyte cells, the release
 CC of a cytokine from peripheral blood mononuclear cells (PBMC), or the
 CC proliferation of endothelial cells), a method for modulating the uptake
 CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
 CC a method for inhibiting the binding of A-peptide to factor VIIA,
 CC or the differentiation of adipocyte cells, a method for detecting the
 CC presence of a tumour in a mammal and an oligonucleotide probe derived
 CC from any of the nucleotide sequences cited above. The nucleic acids and
 CC polypeptides are useful for treating inflammatory diseases, organ
 CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
 CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
 CC diabetic complications. The nucleic acids are useful as hybridisation
 CC probes, in chromosome and gene mapping, and in generating antisense RNA
 CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
 CC biosensors or bioreactors. Both are useful in tissue typing.
 CC The present sequence represents a PRO protein of the invention.

XX SQ Sequence 344 AA;

Query Match 100.0%; Score 1806; DB 24; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MKTIQPKHNSISWAFITGLAALCLFQGVPRVSGDATFPKMDNVTVRQGESATLRCTID 60
 DB 1 MKTIQPKHNSISWAFITGLAALCLFQGVPRVSGDATFPKMDNVTVRQGESATLRCTID 60
 OY 61 NVTYVWLNRSITLITAGNDKWCLOPRVLLSNFTQYSTEIQNVVDVDEGPTCSVQTD 120
 DB 61 NVTYVWLNRSITLITAGNDKWCLOPRVLLSNFTQYSTEIQNVVDVDEGPTCSVQTD 120
 OY 121 NHPKTSRVLLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
 DB 121 NHPKTSRVLLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
 OY 181 SEDEYLEIQGITREQSGDYECASNDVAAPVRRVKVTYVNYPPYISEAKGTGVPVGOKGT 240
 DB 181 SEDEYLEIQGITREQSGDYECASNDVAAPVRRVKVTYVNYPPYISEAKGTGVPVGOKGT 240
 OY 241 LOCEASAVPSAEQWTKDKRLIEGKGVKVENRPFSLKLIFFNYSHDYNYTCVASNK 300
 DB 241 LOCEASAVPSAEQWTKDKRLIEGKGVKVENRPFSLKLIFFNYSHDYNYTCVASNK 300
 OY 301 LGHTNASIMLFGPGAVSEVSNCTSRACGVLLPLLVLLHLLKF 344
 DB 301 LGHTNASIMLFGPGAVSEVSNCTSRACGVLLPLLVLLHLLKF 344

RESULT 11

ID ABU67162
 XX ABU67162 standard; Protein; 344 AA.
 AC ABU67162;
 XX AC
 XX 28-MAY-2003 (first entry)
 XX

PR 10-MAY-2001; 2001US-0854280.
 PR 18-MAY-2001; 2001US-0860216.
 PR 25-MAY-2001; 2001US-0866026.
 PR 01-JUN-2001; 2001US-0866034.
 PR 05-JUN-2001; 2001US-0872035.
 PR 14-JUN-2001; 2001US-0874503.
 PR 19-JUN-2001; 2001US-0882636.
 PR 21-JUN-2001; 2001US-0886342.
 PR 18-JUL-2001; 2001US-0887879.
 PR 06-AUG-2001; 2001US-0908827.
 PR 09-AUG-2001; 2001US-0924419.
 PR 16-AUG-2001; 2001US-0927796.
 PR 19-DEC-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR WPI; 2003-332040/31.
 DR N-PSDB; ACA03790.
 XX
 PT New secreted and transmembrane PRO nucleic acids, useful for gene
 PT therapy, in chromosome and gene mapping, as chromosome markers, in
 PT tissue typing, and in chromosome identification
 XX
 PS Claim 12; Fig 376; 660pp; English.
 CC
 CC The present invention relates to the isolation of novel human PRO
 CC polypeptides and the polynucleotide sequences encoding them. The
 CC PRO polypeptides are secreted and transmembrane proteins. The PRO
 CC polypeptides are useful for detecting other PRO polypeptides, for
 CC linking bioactive molecules to cells expressing PRO polypeptides,
 CC for modulating biological activities of cells expressing PRO
 CC polypeptides, and for identifying agonists or antagonists.
 CC The PRO polypeptides are useful for stimulating the release of
 CC tumour necrosis factor (TNF)-alpha from human blood, for stimulating the
 CC proliferation or differentiation of chondrocytes, and detecting the
 CC presence of tumours. The polynucleotide sequences encoding PRO
 CC polypeptides are useful as hybridisation probes, in chromosome and
 CC gene mapping, in the generation of antisense RNA and DNA, in the
 CC preparation of PRO polypeptides, for generating transgenic animals or
 CC knockout animals, for the genetic analysis of individuals with genetic
 CC disorders, and in gene therapy. AB066570-AB066844 represent the human
 CC PRO polypeptides of the invention.
 CC Note: The sequence data for this patent was obtained in electronic
 CC format directly from the USPTO web site at
 CC seqdata.uspto.gov/psipdsIDentry.html.
 XX
 SQ Sequence 344 AA;
 Query Match 100.0%; Score 1806; DB 24; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKTIQPKMNSISWAIFTGLAALCLFGVPSGDTAPKANDNTVVRQGESATLRCTID 60
 DB 1 MKTIQPKMNSISWAIFTGLAALCLFGVPSGDTAPKANDNTVVRQGESATLRCTID 60
 QY 61 NRTVRVAVLNRSITLYAGNDKWCIDPRVLLSNTQTOYSIEIQNVYDYGPTCSQTD 120
 DB 61 NRTVRVAVLNRSITLYAGNDKWCIDPRVLLSNTQTOYSIEIQNVYDYGPTCSQTD 120
 QY 121 NHKPTRSRVHLIVQSPKIVEISSDINSGNNISLTCATGRPEPTVWPHISPKAVGFV 180
 DB 121 NHKPTRSRVHLIVQSPKIVEISSDINSGNNISLTCATGRPEPTVWPHISPKAVGFV 180
 QY 181 SEDEYLEIOGIREQSGDGYECSASNDVAAPVRRVKVTVNPPYISEAKGTGVPVGQKGT 240
 DB 181 SEDEYLEIOGIREQSGDGYECSASNDVAAPVRRVKVTVNPPYISEAKGTGVPVGQKGT 240

QY 241 LOCASAVPSAEFQYKDDKRLIEGKKGVKVENRPPLSKLIFNVSEHDYGNVTCVASKN 300
 DB 241 LOCASAVPSAEFQYKDDKRLIEGKKGVKVENRPPLSKLIFNVSEHDYGNVTCVASKN 300
 QY 301 LGHTNASIMLFGCGAVSEVSNSTSRACCVWLLPLLVLLHLLKF 344
 DB 301 LGHTNASIMLFGCGAVSEVSNSTSRACCVWLLPLLVLLHLLKF 344
 RESULT 10
 AB067033
 ID AB067033 standard; Protein; 344 AA.
 XX
 XX AB067033;
 XX
 DT 27-MAY-2003 (first entry)
 XX Human secreted/transmembrane, PRO, protein SEQ ID 376.
 DE Human; secreted protein; transmembrane protein; PRO;
 XX inflammatory disease; organ failure; atherosclerosis; cardiac injury;
 KW infertility; birth defects; premature aging; AIDS; biosensor;
 KW acquired immunodeficiency syndrome; cancer; diabetic complication;
 KW bioreactor; tumour
 XX
 XX Homo sapiens.
 OS
 PN US2003032155-A1.
 XX
 PD 13-FEB-2003.
 XX
 PF 03-MAY-2002; 2002US-0137865.
 XX
 PR 31-MAR-1997; 97WO-US05920.
 PR 12-JUN-1996; 96WO-US12456.
 PR 14-JUL-1996; 96WO-US14552.
 PR 28-AUG-1996; 96WO-US17888.
 PR 10-SEP-1996; 96WO-US18824.
 PR 14-SEP-1996; 96WO-US19093.
 PR 14-SEP-1996; 96WO-US19094.
 PR 14-SEP-1996; 96WO-US19177.
 PR 16-SEP-1996; 96WO-US19330.
 PR 17-SEP-1996; 96WO-US19437.
 PR 07-OCT-1996; 96WO-US21141.
 PR 29-OCT-1996; 96WO-US22991.
 PR 29-OCT-1996; 96WO-US22992.
 PR 20-NOV-1996; 96WO-US24855.
 PR 01-DEC-1996; 96WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 20-APR-1999; 99WO-US08615.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 05-OCT-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.

CC construct hybridisation probes for mapping the gene which encodes the
 CC PRO and for the genetic analysis of individuals with genetic disorders,
 CC in gene therapy, for chromosome identification and as a chromosome
 CC marker. (i) and (ii) are useful for tissue typing. This is the amino
 CC acid sequence of a novel human secreted and transmembrane PRO
 CC polypeptide.
 XX
 SQ Sequence 344 AA:

Query Match 100.0%; Score 1806; DB 24; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1 MKTIQPMHNSISWAIFTGLAALCLFOGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 DB 1 MKTIQPMHNSISWAIFTGLAALCLFOGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 OY 61 NRVTRVWLNRSITILYAGNDKWCIDPRVLLSNTOTQYSIEIQNVDDYDGPYTCVSQTD 120
 DB 61 NRVTRVWLNRSITILYAGNDKWCIDPRVLLSNTOTQYSIEIQNVDDYDGPYTCVSQTD 120
 OY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNISLTCIATGRPEPTVTVRHISPKAVGFV 180
 DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNISLTCIATGRPEPTVTVRHISPKAVGFV 180
 OY 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYIIEAKTGVPVQKGT 240
 DB 181 SEDEYLEIOGITREQSGDYECASNDVAAPVVRVVKVTVNPPYIIEAKTGVPVQKGT 240
 OY 241 LOCEASAVPSAEQFYKDDKRLIEGKGVKVENRPFSLKLIFFNVSHDYGNVTCVSNK 300
 DB 241 LOCEASAVPSAEQFYKDDKRLIEGKGVKVENRPFSLKLIFFNVSHDYGNVTCVSNK 300
 OY 301 LGHTNASIMLFGPGAVSEVSGNRRAGCVWLLPLLVHLHLK 344
 DB 301 LGHTNASIMLFGPGAVSEVSGNRRAGCVWLLPLLVHLHLK 344

RESULT 9

ABU66757
 ID ABU66757 standard; Protein; 344 AA.
 AC ABU66757;
 DT 23-MAY-2003 (first entry)
 DE Human PRO polypeptide #188.
 KW Human; PRO polypeptide; secreted and transmembrane protein;
 KW tumour necrosis factor-alpha; TNF-alpha; blood; proliferation;
 KW differentiation; chondrocyte; tumour; genetic disorder;
 KW cytostatic.
 XX
 OS Homo sapiens.
 XX
 PN US2003036180-A1.
 PD 20-FEB-2003.
 PF 09-MAY-2002; 2002US-0143114.
 XX
 PR 31-MAR-1997; 97WO-US05230.
 PR 12-JUN-1998; 98WO-US12456.
 PR 14-JUL-1998; 98WO-US14552.
 PR 28-AUG-1998; 98WO-US17888.
 PR 10-SEP-1998; 98WO-US18824.
 PR 14-SEP-1998; 98WO-US19093.
 PR 14-SEP-1998; 98WO-US19094.
 PR 16-SEP-1998; 98WO-US19177.
 PR 17-SEP-1998; 98WO-US19330.
 PR 17-SEP-1998; 98WO-US19437.
 PR 07-OCT-1998; 98WO-US21141.
 PR 29-OCT-1998; 98WO-US22991.

PR 29-OCT-1998; 98WO-US22992.
 PR 20-NOV-1998; 98WO-US24855.
 PR 01-DEC-1998; 98WO-US25108.
 PR 05-JAN-1999; 99WO-US00106.
 PR 08-MAR-1999; 99WO-US05028.
 PR 10-MAR-1999; 99WO-US05190.
 PR 20-APR-1999; 99WO-US08615.
 PR 14-MAY-1999; 99WO-US10733.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 13-SEP-1999; 99WO-US20944.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 05-OCT-1999; 99WO-US23089.
 PR 29-NOV-1999; 99WO-US28214.
 PR 30-NOV-1999; 99WO-US28313.
 PR 30-NOV-1999; 99WO-US28409.
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30311.
 PR 22-DEC-1999; 99WO-US30399.
 PR 22-DEC-1999; 99WO-US30720.
 PR 30-DEC-1999; 99WO-US31243.
 PR 30-DEC-1999; 99WO-US31274.
 PR 03-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US03565.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04342.
 PR 24-FEB-2000; 2000WO-US04414.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 01-MAR-2000; 2000WO-US05004.
 PR 02-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05746.
 PR 10-MAR-2000; 2000WO-US05841.
 PR 15-MAR-2000; 2000WO-US06319.
 PR 20-MAR-2000; 2000WO-US06884.
 PR 21-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US07532.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 11-AUG-2000; 2000WO-US22031.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34556.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747259.
 PR 28-FEB-2001; 2001US-0796498.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.

PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 infarction), endothelial or angiogenic disorders in a mammal.
 XX Claim 11; Fig 56; 565pp; English.
 PS
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABL88417 to
 CC ABL885003. The PRO proteins and polynucleotides have cardiac, cytostatic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal,
 CC e.g. cardiac hypertrophy, trauma, cancer, age-related macular
 CC degeneration, atherosclerosis, hypertension, arterial restenosis,
 CC rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis,
 CC lymphangitis, tumour angiogenesis (such as breast carcinoma and liver
 CC carcinoma) and wound healing. The PRO polynucleotides have applications
 CC in molecular biology, including use as hybridisation probes, and in
 CC chromosome and gene mapping. ABL88259 to ABL88267 represent primers and
 CC probes used in the exemplification of the present invention.
 XX
 SQ Sequence 344 AA;

Query Match 100.0%; Score 1806; DB 23; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKTTPKMHNSISWAFITGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 DB 1 MKTTPKMHNSISWAFITGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 QY 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQYISIEIONVDYDGPYTCVQTD 120
 DB 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQYISIEIONVDYDGPYTCVQTD 120
 QY 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGV 180
 DB 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGV 180
 QY 181 SEDEYLEIOGITREQSGDYECASNDVAAPVRRVKTVYVPPYISEAKGTGVPVQKGT 240
 DB 181 SEDEYLEIOGITREQSGDYECASNDVAAPVRRVKTVYVPPYISEAKGTGVPVQKGT 240
 QY 241 LQCEASAVPSAEPOWYKDDKRLIEGKGVKVENRPLSKLFFNVSEHDYGVTCVASK 300
 DB 241 LQCEASAVPSAEPOWYKDDKRLIEGKGVKVENRPLSKLFFNVSEHDYGVTCVASK 300
 QY 301 LGHTNASIMLFGGAVSEVSNGTSSRRAGCVWLLPLVLLHLK 344
 DB 301 LGHTNASIMLFGGAVSEVSNGTSSRRAGCVWLLPLVLLHLK 344

RESULT 7
 ID AU083654
 XX AU083654 standard; Protein; 344 AA.
 XX AU083654;
 XX
 DT 08-MAY-2002 (first entry)
 DE Human PRO protein, Seq ID No 126.
 XX
 KW Human; secreted protein; PRO; tumour; lung cancer; colon cancer;
 KW breast cancer; prostate tumour; rectal tumour; liver tumour;
 KW pericyte cell proliferation; chondrocyte cell proliferation;
 KW tumour necrosis factor-alpha.
 XX
 OS Homo sapiens.
 XX
 PN WO200208288-A2.
 XX
 PD 31-JAN-2002.
 XX

PF 29-JUN-2001; 2001WO-US21066.
 XX
 PR 20-JUL-2000; 2000US-219556P
 PR 25-JUL-2000; 2000US-220585P
 PR 25-JUL-2000; 2000US-220605P
 PR 25-JUL-2000; 2000US-220607P
 PR 25-JUL-2000; 2000US-220624P
 PR 25-JUL-2000; 2000US-220638P
 PR 25-JUL-2000; 2000US-220664P
 PR 25-JUL-2000; 2000US-220666P
 PR 26-JUL-2000; 2000US-220693P
 PR 28-JUL-2000; 2000WO-US20710.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 15-SEP-2000; 2000US-000000P.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 28-NOV-2000; 2000US-253646P.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001WO-US17092.
 XX
 XX (GETH) GENENTECH INC.

PA Baker KP, Desnoyers L, Gerritsen ME, Goddard A, Godowski PJ;
 PI Grimaldi JC, Gurney AL, Smith V, Stephan JF, Watanabe CK, Wood WI;
 XX WPI: 2002-172001/22.
 DR N-PSDB; ABK33598.
 XX
 PT One hundred and twenty two nucleic acids encoding PRO polypeptides,
 PT useful for treating a PRO related disorder and for diagnosing tumours
 PT such as lung cancer, colon cancer, breast tumour, prostate tumour, rectal
 PT tumour or liver tumour.
 XX
 XX Claim 11; Figure 126; 359pp; English.

XX The invention relates to one hundred and twenty two nucleic acids
 CC encoding PRO polypeptides. The sequences of the 122 PRO polynucleotides
 CC encode human secreted proteins. The PRO nucleic acids, polypeptides,
 CC agonists and antagonists are useful for treating a PRO related disorder.
 CC The PRO polypeptides are useful for diagnosing tumours, especially lung
 CC cancer, colon cancer, breast tumour, prostate tumour, rectal tumour or
 CC liver tumour. The PRO polypeptides are useful for stimulating the
 CC proliferation of, or gene expression in, pericyte cells, for stimulating
 CC the proliferation or differentiation of chondrocyte cells, for
 CC stimulating the release of tumour necrosis factor-alpha from human blood,
 CC for stimulating or inhibiting the proliferation of normal human dermal
 CC fibroblast cells. The PRO polypeptide may also be used as molecular
 CC weight markers and for tissue typing. The PRO nucleic acids have
 CC applications in molecular biology, including use as hybridisation probes,
 CC and in chromosome and gene mapping. AAU83592-AAU83713 represent human PRO
 CC protein sequences of the invention.

XX Sequence 344 AA;
 SQ
 Query Match 100.0%; Score 1806; DB 23; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MKTTPKMHNSISWAFITGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 DB 1 MKTTPKMHNSISWAFITGLAALCLFQGVPRSGDATFPKAMDNVTVRQGESATLRCTID 60
 QY 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQYISIEIONVDYDGPYTCVQTD 120
 DB 61 NRVTRVWLNRSITLYAGNDKWCIDPRVLLSNTQYISIEIONVDYDGPYTCVQTD 120
 QY 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGV 180
 DB 121 NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGV 180

XX 15-JUN-1999; 99US-0139695.
 PR 20-JUL-1999; 99US-0145070.
 PR 26-JUL-1999; 99US-0145698.
 PR 17-AUG-1999; 99US-0149396.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 15-SEP-1999; 99WO-US21090.
 PR 30-NOV-1999; 99WO-US21547.
 PR 01-DEC-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28301.
 PR 07-DEC-1999; 99US-0169495.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05941.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 XX (GETH) GENENTECH INC.
 PA
 PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski P, Gurney AL, Kijavini IJ, Mather JP, Napier MA, Pan J;
 PI Paoni NF, Roy WA, Stewart TA, Tumas D, Watanabe CK, Williams PW;
 PI Wood WI, Zhang Z;
 XX
 DR WPI: 2001-050091/06.
 DR N-PSDB; AAC87037.
 XX
 PT Isolated nucleic acid molecule encoding a PRO polypeptide which is a
 PT transmembrane polypeptide is useful for gene therapy and identification
 PT of related polypeptides -
 XX
 XX Claim 12: Fig 52: 244pp; English.
 XX
 CC The present sequence represents a human secreted and transmembrane
 CC polypeptide. The specification describes human polypeptides, designated
 CC PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
 CC PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO7170,
 CC PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187,
 CC PRO337, PRO1411, PRO4356, PRO246, PRO265, PRO941, PRO10096, PRO6003,
 CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
 CC can be modulated with agents that bind to these polypeptides, resulting
 CC in the death of the cells. The polynucleotides encoding these
 CC polypeptides are useful in the recombinant production of the
 CC polypeptides, as a hybridisation probe to screen libraries to isolate
 CC homologous sequences, or to map the gene. They may also be used for
 CC analysing genetic disorders, and to produce transgenic animals which are
 CC useful for the development and screening of therapeutically useful
 CC reagents. The polynucleotides can also be used in gene therapy e.g. to
 CC replace a defective gene.
 XX
 SU Sequence 344 AA:
 Query Match 100.0%; Score 1806; DB.22: Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 MKTIQPMHNSISWALFTGLAALCLFQGVPRSGDPTPKAMDNVTVROGESATLRCTID 60
 DB 1 MKTIQPMHNSISWALFTGLAALCLFQGVPRSGDPTPKAMDNVTVROGESATLRCTID 60
 OY 61 NRVTRVAVLNRSITLYAGNDKCLDPRVLLSNTOQVSIETQNDVYDEGPTCSVQTD 120
 DB 61 NRVTRVAVLNRSITLYAGNDKCLDPRVLLSNTOQVSIETQNDVYDEGPTCSVQTD 120
 OY 121 NHPKTSRVHLIVQSPKIVEISSDINSINEGNNISLTCIATGRPEPTVTVRHISPKAVGFV 180

DB 121 NHPKTSRVHLIVQSPKIVEISSDINSINEGNNISLTCIATGRPEPTVTVRHISPKAVGFV 180
 OY 181 SEDEYLEIOGITREQSGDYECASNDVAAPVYRRVYKVTNVPYPISEAKGTGVPVQKGT 240
 DB 181 SEDEYLEIOGITREQSGDYECASNDVAAPVYRRVYKVTNVPYPISEAKGTGVPVQKGT 240
 OY 241 LQCEASAVPSAEFOYKDDKLLTEGKKGVKVENRPTLSKLIFFNSEHDYGNVTCVASK 300
 DB 241 LQCEASAVPSAEFOYKDDKLLTEGKKGVKVENRPTLSKLIFFNSEHDYGNVTCVASK 300
 OY 301 LGHTNASIMLFGPGAVSEVSNGTSSRAGCWLLPLLVLLHLKLF 344
 DB 301 LGHTNASIMLFGPGAVSEVSNGTSSRAGCWLLPLLVLLHLKLF 344

RESULT 5

AB95450
 ID AB95450 standard; Protein: 344 AA.

XX AC AB95450;

XX DT 19-JUL-2002 (first entry)

XX DE Human angiogenesis related protein PRO337 SEQ ID NO: 56.

XX KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
 KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
 KW cardiatic; cytostatic; antiangiogenic; hypotensive; vulnerary;
 KW antiarteriosclerotic.

XX OS Homo sapiens.

XX PN WO200208284-A2.

XX PD 31-JAN-2002.

XX PF 09-JUL-2001; 2001WO-US21735.

PR 20-JUL-2000; 2000US-219556P.
 PR 25-JUL-2000; 2000US-220624P.
 PR 25-JUL-2000; 2000US-220664P.
 PR 28-JUL-2000; 2000WO-US20710.
 PR 02-AUG-2000; 2000US-222695P.
 PR 17-AUG-2000; 2000US-064357.
 PR 23-AUG-2000; 2000WO-US23522.
 PR 24-AUG-2000; 2000WO-US23328.
 PR 07-SEP-2000; 2000US-230978P.
 PR 15-SEP-2000; 2000US-000000P.
 PR 18-SEP-2000; 2000US-0664610.
 PR 24-OCT-2000; 2000US-0665350.
 PR 08-NOV-2000; 2000US-242922P.
 PR 08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 22-JAN-2001; 2001US-0767609.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808699.
 PR 22-MAR-2001; 2001US-0816244.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 30-MAY-2001; 2001US-0870574.
 PR 30-MAY-2001; 2001WO-US17443.

AAU12359
 ID AAU12359 standard; Protein; 344 AA.
 AC AAU12359;
 XX
 DT 24-OCT-2001 (first entry)
 XX
 DE Human PRO337 polypeptide sequence.
 XX
 KW Human secretory and transmembrane; PRO; mammalian; cancer; lung;
 KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
 KW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
 KW adipocyte; A-peptide; factor VIIA; gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN WO200140466-A2.
 XX
 PD 07-JUN-2001.
 XX
 PF 01-DEC-2000; 2000WO-US32678.
 XX
 PR 01-DEC-1999; 99WO-US28301.
 PR 01-DEC-1999; 99WO-US28634.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28564.
 PR 02-DEC-1999; 99WO-US28565.
 PR 09-DEC-1999; 99US-0170262.
 PR 16-DEC-1999; 99WO-US30095.
 PR 20-DEC-1999; 99WO-US30911.
 PR 20-DEC-1999; 99WO-US30999.
 PR 30-DEC-1999; 99WO-US31243.
 PR 05-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 PR 11-FEB-2000; 2000WO-US00365.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 22-FEB-2000; 2000WO-US04342.
 PR 24-FEB-2000; 2000WO-US04914.
 PR 24-FEB-2000; 2000WO-US05004.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 21-MAR-2000; 2000WO-US07532.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 17-MAY-2000; 2000WO-US13705.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 30-MAY-2000; 2000WO-US14941.
 PR 02-JUN-2000; 2000WO-US15264.
 PR 10-NOV-2000; 2000WO-US30873.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
 PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z.
 XX
 DR N-PSDB; AA521431.
 DR WPI; 2001-408281/43.
 DR
 PT Isolated, secretory and transmembrane PRO polypeptide used to detect
 PT other PRO polypeptides, link bioactive molecules to cells expressing
 PT PRO polypeptides, and detect the presence of mammalian tumours e.g.
 PT lung, breast, prostate, cervical.
 XX
 PS Claim 12; Fig 376; 813pp; English.
 XX
 CC AAU12172-AAU12446 represent novel human secretory and transmembrane
 CC PRO polypeptides. The PRO polypeptides are useful to detect other
 CC PRO polypeptides, to link bioactive molecules to cells expressing
 CC PRO polypeptides, to modulate biological activities of cells expressing
 CC PRO polypeptides, and to detect the presence of mammalian lung, colon,
 CC breast, prostate, rectal, cervical or liver tumours by comparing PRO
 CC polypeptide expression in a cell sample to that in a control sample.

CC Some of the 275 sequences are also useful to stimulate the release of
 CC tumour necrosis factor-alpha (TNF-alpha) from human blood, the
 CC proliferation or differentiation of chondrocytes, the proliferation or
 CC gene expression in pericyte cells, the release of proteoglycans from
 CC cartilage, the proliferation of inner ear utricular supporting cells or
 CC of T-lymphocytes, the release of a cytokine from peripheral blood
 CC monocytes (PBMCs), or the proliferation of endothelial cells. Some of
 CC the PRO polypeptides may modulate glucose or free fatty acid uptake by
 CC skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
 CC to factor VIIA. The PRO polypeptides can be used in assays to identify
 CC molecules involved in binding interactions. The polynucleotides encoding
 CC PRO polypeptides can be used to generate probes, antisense RNA/DNA,
 CC transgenic or knock out animals and can be used in gene therapy.
 XX
 SQ Sequence 344 AA;
 Query Match 100.0%; Score 1806; DB 22; Length 344;
 Best Local Similarity 100.0%; Pred. No. 3e-149;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 M K T I O P K M H N S I S W A I F T G L A L C L F O G V P V R S G D A T F P K A M D N V T V R G E S A T L R C T I D 60
 DB 1 M K T I O P K M H N S I S W A I F T G L A L C L F O G V P V R S G D A T F P K A M D N V T V R G E S A T L R C T I D 60
 QY 61 N R V T R V A W L N R S T I L Y A G N D K W C L D P R V L L S N T O T O Y S I E I O N V D V D E G P Y T C S V Q T D 120
 DB 61 N R V T R V A W L N R S T I L Y A G N D K W C L D P R V L L S N T O T O Y S I E I O N V D V D E G P Y T C S V Q T D 120
 QY 121 N H P K T S R V H L I V Q V S P K I V E I S S D I S I N E G N N I S L T C I A T G R P E P T V W R H I S P K A V G F V 180
 DB 121 N H P K T S R V H L I V Q V S P K I V E I S S D I S I N E G N N I S L T C I A T G R P E P T V W R H I S P K A V G F V 180
 QY 181 S E D Y L E I O G I T R E Q S G D Y E C S A S N D V A A P V R R V K V T V N Y P P Y I S E A K G T G V P V Q K G T 240
 DB 181 S E D Y L E I O G I T R E Q S G D Y E C S A S N D V A A P V R R V K V T V N Y P P Y I S E A K G T G V P V Q K G T 240
 QY 241 L Q C E A S A V P S A E F O W Y K D K R L E G K G V K V E N R P F L S K L I F F N V S E H D Y G N Y T C V A S N K 300
 DB 241 L Q C E A S A V P S A E F O W Y K D K R L E G K G V K V E N R P F L S K L I F F N V S E H D Y G N Y T C V A S N K 300
 QY 301 L G H T N A S I M L F G C A V S E V S N G T S R R A G C V W L L P L L V L H L L K F 344
 DB 301 L G H T N A S I M L F G C A V S E V S N G T S R R A G C V W L L P L L V L H L L K F 344
 RESULT 4
 AAB31204
 ID AAB31204 standard; Protein; 344 AA.
 XX
 AC AAB31204;
 XX
 DT 20-APR-2001 (first entry)
 XX
 DE Amino acid sequence of human polypeptide PRO337.
 XX
 KW Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
 KW PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1361; PRO1308;
 KW PRO1183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;
 KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
 KW PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
 KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT Peptide 1..28
 FT /note="signal peptide"
 PN WO200077037-A2.
 XX
 PD 21-DEC-2000.
 XX
 PF 22-MAY-2000; 2000WO-US14042.

PR 02-DEC-1999; 99WO-US28565.
PR 16-DEC-1999; 99WO-US30095.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
XX (GETH) GENENTECH INC.
XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;
XX Ferrara N, Filvaroff E, Fong S, Gao W, Gerber H, Gerritsen ME;
XX Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
XX Klijavlin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA,
XX Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
XX NPI: 2000-611443/58.
XX N-PSDB: AAC78590.
XX Novel PRO polypeptides and polynucleotides used in detection methods,
XX to target bioactive molecules to specific cells, and to modulate
XX cellular activities
XX Claim 12; Fig 222; 636pp; English.
XX AAC78458 to AAC78599 represent polynucleotide and EST (expressed
XX sequence tag) sequences which encode secreted or transmembrane PRO
XX polypeptides. The PRO polynucleotides and polypeptides have cytostatic
XX activity. The polynucleotides and polypeptides can be used for detecting
XX the presence of PRO polypeptides in samples, for linking bioactive
XX molecules to cells and for modulating biological activities of cells,
XX using the polypeptides, for specific targeting. The polypeptide targeting
XX can be used to kill the target cells, e.g. for the treatment of cancers.
XX The polypeptide pairs provide specific targeting of bioactive molecules
XX to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
XX the isolation of the PRO polynucleotide sequences.
XX Sequence 344 AA;
Query Match 100.0%; Score 1806; DB 21; Length 344;
Best Local Similarity 100.0%; Pred. No. 3e-149;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MKTIQPKMHSISWAIFTGLAALCLFQGVPRVSGDATFPKAMDNVTVRQGESATLRCTID 60
DB 1 MKTIQPKMHSISWAIFTGLAALCLFQGVPRVSGDATFPKAMDNVTVRQGESATLRCTID 60
QY 61 NRVTVAWLNRSTILYAGNDKWCLOPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
DB 61 NRVTVAWLNRSTILYAGNDKWCLOPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
QY 181 SEDEYLEIQITREGSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
DB 181 SEDEYLEIQITREGSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
QY 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVSNK 300
DB 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVSNK 300
QY 301 LGHTNASIMLFGPGAVSEVSGTSSRRAGCVWLLPLLVLLHLKLF 344
DB 301 LGHTNASIMLFGPGAVSEVSGTSSRRAGCVWLLPLLVLLHLKLF 344

RESULT 2

AA57601

ID: AA57601 standard; Protein: 344 AA.

XX

AC AA57601;

XX 10-MAR-2000 (first entry)
XX DT
XX Human protein SEQ.ID NO:1.
XX DE
XX Human; hematopoietic cell regulation; tissue generation; reparation;
XX KW activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;
XX KW receptor; ligand; autoimmunity; infection-related immunodeficiency;
XX KW inflammatory disorder; neurological disease.
XX OS
XX Homo sapiens,
XX PN WO9958668-A1.
XX PD 18-NOV-1999.
XX PF 13-MAY-1999; 99WO-JP02485.
XX PR 14-MAY-1998; 98JP-0131815.
XX PA (ONCOY) ONO PHARM CO LTD.
XX PI Fukushima D, Shibayama S, Tada H;
XX WPI: 2000-062298/05.
XX DR N-PSDB: AA247892, AA247893.
XX New polypeptides of human origin having cell-regulatory, tissue
XX generation, coagulant and other activities
XX Claim 1; Page 38-40; 84pp; Japanese.
XX The present sequence represents a specifically claimed novel human
XX protein. The novel human protein can be used in therapeutic drugs for
XX the prevention and treatment of a broad range of disorders including
XX autoimmune and infection-related immunodeficiency, inflammatory
XX disorders, and neurological diseases. The novel protein is expected of
XX having hematopoietic cell regulatory activity, tissue generation/
XX reparation activity, activin/inhibin activity, taxis/chemotaxis activity,
XX blood coagulation and thrombus activity, and receptor/ligand activity.
XX Sequence 344 AA;
Query Match 100.0%; Score 1806; DB 21; Length 344;
Best Local Similarity 100.0%; Pred. No. 3e-149;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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QY 61 NRVTVAWLNRSTILYAGNDKWCLOPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
DB 61 NRVTVAWLNRSTILYAGNDKWCLOPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
QY 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
QY 181 SEDEYLEIQITREGSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
DB 181 SEDEYLEIQITREGSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
QY 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVSNK 300
DB 241 LOCEASAVPSAEFQWKDKRLIEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVSNK 300
QY 301 LGHTNASIMLFGPGAVSEVSGTSSRRAGCVWLLPLLVLLHLKLF 344
DB 301 LGHTNASIMLFGPGAVSEVSGTSSRRAGCVWLLPLLVLLHLKLF 344

RESULT 3

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: September 11, 2003, 02:49:08 ; Search time 72 Seconds
(without alignments)
758.360 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQPKHNSISWAIFTGL.....RRAGCVLLPLDLVLLKLF 344

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1107863 seqs, 158726573 residues

Total number of hits satisfying chosen parameters: 1107863

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

- A_Geneseq_19Jun03:*
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 - 2: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA1981.DAT.*
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 - 24: /SIDS1/gcgdata/geneseq/geneseq-emb1/AA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1806	100.0	344	21	AA444329
2	1806	100.0	344	21	AA57601
3	1806	100.0	344	22	AAU12359
4	1806	100.0	344	22	AAU1204
5	1806	100.0	344	23	AB95450
6	1806	100.0	344	23	AB84844
7	1806	100.0	344	23	AAU83654
8	1806	100.0	344	24	ABU72061
9	1806	100.0	344	24	ABU66757

10	1806	100.0	344	24	ABU67033	Human secreted/tra
11	1806	100.0	344	24	ABU67162	Novel human secret
12	1806	100.0	344	24	ABU67293	Novel human secret
13	1806	100.0	344	24	ABU59838	Novel secreted and
14	1806	100.0	344	24	ABU61159	Human PRO337 polyp
15	1806	100.0	355	22	AAU40499	Human polypeptide
16	1799	99.6	344	21	AAU19721	Human SECX Clone 1
17	1799	99.6	344	21	AAU19722	Human SECX Clone 1
18	1791.5	99.2	343	20	AAU1773	Human PRO337 prote
19	1665.5	92.2	344	20	AAU38713	Human polypeptide
20	1665.5	92.2	344	24	AAU56719	Lung cancer-associ
21	1643	91.0	381	23	AAU79205	Human kruppel asso
22	1642	90.9	313	21	AAU57602	Human protein SEQ
23	932.5	51.6	335	23	AAU19641	Human limbic syste
24	926.5	51.3	338	17	AAU05153	Rat LAMP residues
25	926.5	51.3	338	17	AAU05154	Rat LAMP residues
26	923.5	51.1	325	17	AAU05152	Human LAMP residue
27	913	50.6	361	17	AAU05172	Rat LAMP clone 6c
28	908	50.3	308	17	AAU05157	Human LAMP residues
29	907	50.2	315	17	AAU05158	Rat LAMP residues
30	905	50.1	310	17	AAU05156	Rat mature LAMP
31	902	49.9	304	17	AAU05155	Human mature LAMP
32	893	49.4	383	24	ABR39441	Human GENSET polyp
33	886.5	49.1	287	17	AAU05159	Human LAMP residue
34	885.5	49.0	287	17	AAU05160	Rat LAMP residues
35	852.5	47.2	326	22	AAU75020	Human colon cancer
36	823	45.6	354	22	AAU1212	Amino acid sequenc
37	823	45.6	354	23	ABP33580	Human NOV12a prote
38	823	45.6	354	23	ABU33592	Human PRO protein,
39	823	45.6	354	24	ABU72069	Novel human secret
40	823	45.6	354	24	ABU67170	Novel human secret
41	823	45.6	354	24	ABU67301	Novel human secret
42	822	45.5	354	23	ABU98407	Human NOV6, KILON
43	819	45.3	354	23	ABP33581	Human NOV12b prote
44	815	45.1	352	21	AAU44331	Human PRO4993 prot
45	815	45.1	352	24	ABU61161	Human PRO4993 polyp

ALIGNMENTS

RESULT 1

AA444329
ID AAB44329 standard; Protein; 344 AA.

XX AAB44329;

XX AC AAB44329;

XX DT 08-FEB-2001 (first entry)

XX DE Human PRO337 protein sequence SEQ ID NO:523.

XX KW Human; secreted protein; transmembrane protein; PRO; EST; cytostatic;

XX KW expressed sequence tag; detection; cancer.

XX OS Homo sapiens.

XX PN W0200053756-A2.

XX PD 14-SEP-2000.

XX PF 18-FEB-2000; 2000WO-US04341.

XX PR 08-MAR-1999; 99WO-US05028.

XX PR 12-MAR-1999; 99US-0123957.

XX PR 29-MAR-1999; 99US-0126773.

XX PR 21-APR-1999; 99US-0130232.

XX PR 28-APR-1999; 99US-0131445.

XX PR 14-MAY-1999; 99US-0134287.

XX PR 23-JUN-1999; 99US-0141037.

XX PR 26-JUL-1999; 99US-0145698.

XX PR 29-OCT-1999; 99US-0162506.

XX PR 30-NOV-1999; 99WO-US28313.

XX PR 02-DEC-1999; 99WO-US28551.

PRIOR APPLICATION NUMBER: 60/081203
PRIOR FILING DATE: 1998-04-09
PRIOR APPLICATION NUMBER: 60/081229
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PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1679; DB 11; Length 1679;

Best Local Similarity 100.0%; Pred. No. 0;

Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 301 GTGCATATTGACAACCGGGTCAACCGGGTGGCTTAAACCGGAGGAGATGCCTCTA 360
QY 361 TGCTGGGAATGACAAGTGGCTGGATCTCTCGGTGGTCTCTCTGAGCAACCCAAAC 420
DB 361 TGCTGGGAATGACAAGTGGCTGGATCTCTCGGTGGTCTCTCTGAGCAACCCAAAC 420
QY 421 GCAGTACAGCATCGAGATCCAGAACGTGGATGATGACGAGGCGCTTACACCTGTC 480
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Query Match 100.0%; Score 1679; DB 11; Length 1679;
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841 ACAGAGGGGACACTGACGTGTAAGCTCTAGCAGTCCCTCAGCAGATTCACAGTGGTA 900
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DB 1621 GTAGACTGTGCCACACCGCGTGTGTGTGAACCTGAAATATAAAGAGCAAAAAAAA 1679

RESULT 14

US-09-918-585A-522
Sequence 522, Application US/09918585A

Publication No. US2003060406A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi

APPLICANT: Baker Kevin P.

APPLICANT: Botstein, David

APPLICANT: Desnoyers, Luc

APPLICANT: Eaton, Dan

APPLICANT: Ferrara, Napoleon

APPLICANT: Filvaroff, Ellen

APPLICANT: Fong, Sherman

APPLICANT: Gao, Wei-Qiang

APPLICANT: Gerber, Hanspeter

APPLICANT: Grimsdall, Audrey

APPLICANT: Goddard, Paul J.

APPLICANT: Grimaldi, J. Christopher

APPLICANT: Gurney, Austin L.

APPLICANT: Hillan, Kenneth J.

APPLICANT: Kijavini, Ivar J.

APPLICANT: Kuo, Sophia S.

APPLICANT: Napier, Mary A.

APPLICANT: Pan, James

APPLICANT: Paoni, Nicholas F.

APPLICANT: Roy, Margaret Ann.

APPLICANT: Shelton, David L.

APPLICANT: Stewart, Timothy A.

APPLICANT: Tumas, Daniel

APPLICANT: Williams, P. Mickey

APPLICANT: Wood, William I.

TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same

FILE REFERENCE: P2630PIC1

CURRENT APPLICATION NUMBER: US/09/918,585A

PRIOR FILING DATE: 2001-07-30

PRIOR APPLICATION NUMBER: 60/062250

PRIOR FILING DATE: 1997-10-17

PRIOR APPLICATION NUMBER: 60/064249

PRIOR FILING DATE: 1997-11-03

PRIOR APPLICATION NUMBER: 60/065311

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DB	121 AAGAAAAAATCATGAAACCATCCAGCCAAATATGCAATTTCTATCTTTGGGCAAT 180	
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QY	481 GGTGAGACAGACACACACACACACCTCTAGGGTCCACCTCATTTGTGCAAGTATCTCC 540	
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QY	1081 CAGCAGGTGAGCAAGCGGACGTCGAGGAGGAGGCGGTGGTCTGGCTGCTGCTCTCT 1140	
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APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
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APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
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Db 661 GGTTCGCTTTGTGAGTGAAGACGAATCTTGGAAATTCAGGGCATACACCGGAGAGTC 720
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Db 721 AGGGGACTACGAGTGCAGTGCCTCCAAATGACGTGGCGCCGCGCTGTGTCAGGAGTAAA 780
Qy 781 GGTACCCGTAATATCCACCATACATTTTCAGAACCAAGGTCACAGGTGTCGCCGCTGG 840
Db 781 GGTACCCGTAATATCCACCATACATTTTCAGAACCAAGGTCACAGGTGTCGCCGCTGG 840
Qy 841 AAAAAAGGACACTGCACTGAGGCTCAGAGCTCAGAGTCCCTCAGCAGAAATTCAGTGGTA 900
Db 841 AAAAAAGGACACTGCACTGAGGCTCAGAGCTCAGAGTCCCTCAGCAGAAATTCAGTGGTA 900
Qy 901 CAAGGATGACAAAGACTGATTGAAGAAAGAAAGGGGTGAAGTGGAAACAGACCTTT 960
Db 901 CAAGGATGACAAAGACTGATTGAAGAAAGAAAGGGGTGAAGTGGAAACAGACCTTT 960
Qy 961 CCTCTCAAAACTCATCTTTCTCAATGTCTGAACATGACTATGGAACTACACTTTGGT 1020
Db 961 CCTCTCAAAACTCATCTTTCTCAATGTCTGAACATGACTATGGAACTACACTTTGGT 1020
Qy 1021 GGCTCTCAAGCTGGGCGACACCAATGCCAGCATCATGCTATTTGGTCCAGGCGCGT 1080
Db 1021 GGCTCTCAAGCTGGGCGACACCAATGCCAGCATCATGCTATTTGGTCCAGGCGCGT 1080
Qy 1081 CAGCGAGTGACCAACGCGCTGAGGAGGCGAGCTGCTGCTGCTGCTGCTGCTCTCT 1140
Db 1081 CAGCGAGTGACCAACGCGCTGAGGAGGCGAGCTGCTGCTGCTGCTGCTGCTCTCT 1140
Qy 1141 GGTCTGCACTGCTCTCAATTTGATGTGAGTGCCACATTCCTCCACCGGGAAGCT 1200
Db 1141 GGTCTGCACTGCTCTCAATTTGATGTGAGTGCCACATTCCTCCACCGGGAAGCT 1200
Qy 1201 CGCGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAATCATGATA 1260
Db 1201 CGCGCCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAATCATGATA 1260
Qy 1261 TATACAAATGAATAGAAAGAACACAGCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
Db 1261 TATACAAATGAATAGAAAGAACACAGCTCATGGGACAGAAATTTGAGGGAGGGAAC 1320
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Db 1321 AAAGAACTTTGGGGGAAAAAGTTTTTAAAAAGAAATTTGAAATTTGCTTTGCAGATA 1380
Qy 1381 TTTAGGTACAATGGAGTTTTTTTCCCAACGGAAGAACACAGCACACCCCGCTTGA 1440
Db 1381 TTTAGGTACAATGGAGTTTTTTTCCCAACGGAAGAACACAGCACACCCCGCTTGA 1440
Qy 1441 CCCACTGCAAGTGCATCGTCAACCTCTTTGTCAGTGTGGCAAGGCTTCAGCCTC 1500
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Qy 1501 TCTGCCACAGAGTGCCTCCCGACGTTGAACATTTCTGAGCTGGCCATCCCAATTCATCA 1560
Db 1501 TCTGCCACAGAGTGCCTCCCGACGTTGAACATTTCTGAGCTGGCCATCCCAATTCATCA 1560
Qy 1561 GTCCATAGAGACGAACGAATGAGACCTTCGCGCCACAGCTGCGCTGGGCACTTTG 1620
Db 1561 GTCCATAGAGACGAACGAATGAGACCTTCGCGCCACAGCTGCGCTGGGCACTTTG 1620
Qy 1621 GTAGCTGTGCCACCAACCGCTGTGTGTAACGTGAATTAATAAGACAAAAA 1679
Db 1621 GTAGCTGTGCCACCAACCGCTGTGTGTAACGTGAATTAATAAGACAAAAA 1679

RESULT 11

US-09-999-833A-522

Sequence 522, Application US/09999833A
Publication No. US20030034405A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavini, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Sequences Encoding the Same
FILE REFERENCE: P2630P1C55
CURRENT APPLICATION NUMBER: US/09/999,833A
CURRENT FILING DATE: 2001-10-24
PRIOR APPLICATION NUMBER: 03/918585
PRIOR FILING DATE: 2001-07-30
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PRIOR FILING DATE: 1997-10-17
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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Query Match      100.0%  Score 1679;  DB 11;  Length 1679;
Best Local Similarity 100.0%;  Pred. No. 0;
Matches 1679;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

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Db      1  GTGTGTCTTCAGCAAAACAGTGGATTAAATCTCTTGCACAGCTTGGAGGAGAC  60

QY     61  RATCTATCAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG  120
Db     61  RATCTATCAGGAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAGAAAG  120

QY    121  AAAAAAAATCATGAAACCAATCCAGCCAAATGCAATTCATCTCTTGGGCAAT  180
Db    121  AAAAAAAATCATGAAACCAATCCAGCCAAATGCAATTCATCTCTTGGGCAAT  180

QY    181  CTTACGGGGCTGGCTGCTGTGTCTCTTCCAAAGAGTGCCTGCGGAGAGATGC  240
Db    181  CTTACGGGGCTGGCTGCTGTGTCTCTTCCAAAGAGTGCCTGCGGAGAGATGC  240

QY    241  CACCTTCCCAAGCTATGGACACGCTGACGGTCCGGGAGGGAGAGCCGCCCTCAG  300
Db    241  CACCTTCCCAAGCTATGGACACGCTGACGGTCCGGGAGGGAGAGCCGCCCTCAG  300

QY    301  GTGCACATATTGACAAACCGGGTCAACCGGGTGGCTTAAACCGAGCAGCACCCTCTA  360
Db    301  GTGCACATATTGACAAACCGGGTCAACCGGGTGGCTTAAACCGAGCAGCACCCTCTA  360

QY    361  TCGTGGGAATGACAAAGTGGTGCCTGATCTCTGATGATGATGATGATGATGATGAT  420
Db    361  TCGTGGGAATGACAAAGTGGTGCCTGATCTCTGATGATGATGATGATGATGATGAT  420

QY    421  GCAGTACAGCATCGAGATCCAGAACGCTGATGATGATGATGATGATGATGATGATGAT  480
Db    421  GCAGTACAGCATCGAGATCCAGAACGCTGATGATGATGATGATGATGATGATGATGAT  480

QY    481  GGTGACAGACAGACACCAACCTTACAGGCTTACAGGAGGAGGAGGAGGAGGAGGAG  540
Db    481  GGTGACAGACAGACACCAACCTTACAGGCTTACAGGAGGAGGAGGAGGAGGAGGAG  540

QY    541  CAAATTTAGAGATTTCTTCAGATATCTCCATTAATGAGGAGAAATATTAGCTCTAC  600
Db    541  CAAATTTAGAGATTTCTTCAGATATCTCCATTAATGAGGAGAAATATTAGCTCTAC  600

QY    601  CTGATAGCAACTGTTAGACAGAGCTACGGTTACTTGGAGACACATCTCTCCCAAGCC  660
Db    601  CTGATAGCAACTGTTAGACAGAGCTACGGTTACTTGGAGACACATCTCTCCCAAGCC  660

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Db 1081 CAGCGAGTGAGCAAGCGACGTCGAGGAGGCGAGGCTGCTGGCTGCTGCTCTTCT 1140
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Qy 1621 GTAGACTGCGCCACGAGGGCTGTCTGTGAAGTGAAATTAAGAGCAAAAAA 1679
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RESULT 10

US-09-978-564A-522
; Sequence 522, Application US/09978564A
; Publication No. US20030050241A1

GENERAL INFORMATION:

; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel

; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C25
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 09/918585
; PRIOR FILING DATE: 2001-07-30
; PRIOR APPLICATION NUMBER: 60/062250
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/064249
; PRIOR FILING DATE: 1997-11-03
; PRIOR APPLICATION NUMBER: 60/065311
; PRIOR FILING DATE: 1997-11-13
; PRIOR APPLICATION NUMBER: 60/066364
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; PRIOR FILING DATE: 1998-04-01
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; PRIOR FILING DATE: 1998-04-08

		Best Local Similarity 100.0%; Pred. No. 0;				Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;			
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Qy	121	AGAAAAAATCATGAAACCATTCAGCCAAATGACAAATTCATCTCTTGGCAAT	180						
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Qy	241	CACCTTCCCAAGCTATGACAACTGACGCTGCGGAGGAGGAGGAGGAGGAGGAG	300						
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	301	GTGCACTATTGACAAACCGGCTCACCCGGGTCCTGCTGCTGCTGCTGCTGCTGCT	360						
Qy	361	TGCTGGGAATGACAAAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	420						
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Qy	421	GCAGTACAGCATCGAGATCCAGACGTCGATGCTGATGACGAGGCGCTTACACCTC	480						
	421	GCAGTACAGCATCGAGATCCAGACGTCGATGCTGATGACGAGGCGCTTACACCTC	480						
Qy	481	GTGCAGACAGACAAACCCCAAGACCTCTAGGTCACACCTCTGTCAGGATCTCTCC	540						
	481	GTGCAGACAGACAAACCCCAAGACCTCTAGGTCACACCTCTGTCAGGATCTCTCC	540						
Qy	541	CAAAATTCAGAGATTTCTCAGATATCTCCATTAATGAGGAGACATATAGCCCTAC	600						
	541	CAAAATTCAGAGATTTCTCAGATATCTCCATTAATGAGGAGACATATAGCCCTAC	600						
Qy	601	CTGCATACGACTGGTAGACAGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	660						
	601	CTGCATACGACTGGTAGACAGACGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	660						
Qy	661	GCTGGCTTGTGAGTGAAGACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	720						
	661	GCTGGCTTGTGAGTGAAGACGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT	720						
Qy	721	AGGGACATGAGTGGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	780						
	721	AGGGACATGAGTGGAGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGTGGT	780						
Qy	781	GTCACGCTGAGTATCCACCATATATTCAGAGACCAAGGATGACAGTGTCCCGTGGG	840						
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Qy	841	ACAAAGGGGACACTGCAGTGTGAAGCCTCAGACGTCCTCAGCAGATTCACAGTGTGA	900						
	841	ACAAAGGGGACACTGCAGTGTGAAGCCTCAGACGTCCTCAGCAGATTCACAGTGTGA	900						
Qy	901	CAAGGATGACAAAGACTGATTGAAGAAAGAAAGGAGTGAAGTGAAGAAAGAAAG	960						
	901	CAAGGATGACAAAGACTGATTGAAGAAAGAAAGGAGTGAAGTGAAGAAAGAAAG	960						
Qy	961	CCTCTCAAACTCATCTCTCAATGCTCTGACATGACTATGGAACTACATTCGCT	1020						
	961	CCTCTCAAACTCATCTCTCAATGCTCTGACATGACTATGGAACTACATTCGCT	1020						
Qy	1021	GGCTCCCAAGCTGGGACCAAGTGGGACCATGCTATTTGGTCAGGCGCGCT	1080						
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Db	1441	CCACTCAGAGTCAGTCAGTGCACACCTCTTTGGTGGCCAGTGTGGGCAAGGCTCAGCCTC	1500
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RESULT 9			
US-09-978-403A-522			
Sequence 522, Application US/09978403A			
Publication No. US20030050240A1			
GENERAL INFORMATION:			
APPLICANT: Ashkenazi, Avi			
APPLICANT: Baker Kevin P.			
APPLICANT: Botstein, David			
APPLICANT: Desnoyers, Luc			
APPLICANT: Eaton, Dan			
APPLICANT: Ferrara, Napoleon			
APPLICANT: Fong, Sherman			
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APPLICANT: Goddard, Audrey			
APPLICANT: Godowski, Paul J.			
APPLICANT: Grimaldi, J. Christopher			
APPLICANT: Gunney, Austin L.			
APPLICANT: Hillan, Kenneth J.			
APPLICANT: Kijavrin, Ivar J.			
APPLICANT: Kuo, Sophia S.			
APPLICANT: Napier, Mary A.			
APPLICANT: Pan, James			
APPLICANT: Paoni, Nicholas F.			
APPLICANT: Ray, Margaret Ann			
APPLICANT: Shelton, David L.			
APPLICANT: Stewart, Timothy A.			
APPLICANT: Tumas, Daniel			
APPLICANT: Williams, P. Mickey			
APPLICANT: Wood, William I.			
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic			
Acids Encoding the Same			
FILE REFERENCE: P2630PLC17			
CURRENT APPLICATION NUMBER: US/09/978,403A			
CURRENT FILING DATE: 2002-03-19			
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PRIOR FILING DATE: 2001-07-30			
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PRIOR FILING DATE: 1998-04-22			

APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Geritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kiljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumes, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630P1C4
CURRENT APPLICATION NUMBER: US/09/978,191A
CURRENT FILING DATE: 2001-10-15
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PRIOR FILING DATE: 1998-04-29

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APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C15
CURRENT APPLICATION NUMBER: US/09/978,585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 522
LENGTH: 1679
TYPE: DNA
ORGANISM: Homo sapiens
US-09-978-585A-522

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Best Local Similarity 100.0%; Pred. No. 0;
Matches 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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RESULT 8

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; Sequence 522, Application US/09978191A
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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman

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; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Fillvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Goddard, Audrey E.
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; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
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; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secured and Transmembrane Polypeptides and Nucleic
; FILE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P26309122
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; CURRENT FILING DATE: 2001-10-16
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; Prior Application removed - See File Wrapper or Palm
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PRIOR APPLICATION NUMBER: 60/085582
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PRIOR APPLICATION NUMBER: 60/085700
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085689
PRIOR FILING DATE: 1998-05-15
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PRIOR APPLICATION NUMBER: 60/085580
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match
Best Local Similarity 100.0%; Score 1679; DB 11; Length 1679;
Matches: 1679; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 GTTGTGCTCTTCAGCAAAACAGTGGATTAAATCTCTTCACAAGCTTGAGAGCAAC 60
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DB 1 GTTGTGCTCTTCAGCAAAACAGTGGATTAAATCTCTTCACAAGCTTGAGAGCAAC 60
QY 61 AATCTATCAGGAAGAAGAAAGAAACCGAACTGACAAAAGAAAGAAAGAAAG 120
|||||
DB 61 AATCTATCAGGAAGAAGAAAGAAACCGAACTGACAAAAGAAAGAAAGAAAG 120
QY 121 AAGAAAAAATCATGAAACCAATCCAGCCAAAAATGCACAAATCTCTTGGCAAT 180
|||||
DB 121 AAGAAAAAATCATGAAACCAATCCAGCCAAAAATGCACAAATCTCTTGGCAAT 180

[illegible]

; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085689
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085579
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085580
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085573
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1806; DB 11; Length 344;
 Best Local Similarity 100.0%; Pred. No. 1.7e-150;
 Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY	1	MKTIQPKMNSISWAIETGLAALCLFQGVVPRSGDATFPKAMDNDVTVROGESATLRCTID	60
DB	1	MKTIQPKMNSISWAIETGLAALCLFQGVVPRSGDATFPKAMDNDVTVROGESATLRCTID	60
QY	61	NRVTRVAMLRNSTILYAGNDKWCLDPRVLLSNTOTQYSTEIQNDVDYDEGPTCSVQTD	120
DB	61	NRVTRVAMLRNSTILYAGNDKWCLDPRVLLSNTOTQYSTEIQNDVDYDEGPTCSVQTD	120
QY	121	NHFKTSRVLHVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVWRHISPKAVGFV	180
DB	121	NHFKTSRVLHVQSPKIVEISSDISINEGNNISLTCTATGRPEPTVWRHISPKAVGFV	180
QY	181	SEDEYLEIOTIGTREGSGDYECASNDVAPVVRVKKVTVNPPYISEAKGTGVPVGKGT	240
DB	181	SEDEYLEIOTIGTREGSGDYECASNDVAPVVRVKKVTVNPPYISEAKGTGVPVGKGT	240
QY	241	LOCEASAVPSAEFOWYKDKKRLTEGKGVKVENRFLSKLFFNVSEHDYGNVTCVASNK	300
DB	241	LOCEASAVPSAEFOWYKDKKRLTEGKGVKVENRFLSKLFFNVSEHDYGNVTCVASNK	300
QY	301	LGHNTASIMLFGPCAVSEVSNSTRAGCVWLLPLLVLLHLLKF	344
DB	301	LGHNTASIMLFGPCAVSEVSNSTRAGCVWLLPLLVLLHLLKF	344

RESULT 9

US-09-978-403a-523
 ; Sequence 523, Application US/09978403A
 ; Publication No. US20030050240A1

; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kijavon, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey

; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C17
 ; CURRENT APPLICATION NUMBER: US/09/978,403A
 ; CURRENT FILING DATE: 2002-03-19
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30
 ; PRIOR APPLICATION NUMBER: 60/062250
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/064249
 ; PRIOR FILING DATE: 1997-11-03
 ; PRIOR APPLICATION NUMBER: 60/065311
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 ; PRIOR APPLICATION NUMBER: 60/066364
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 ; PRIOR APPLICATION NUMBER: 60/077450
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 ; PRIOR APPLICATION NUMBER: 60/080194
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 ; PRIOR APPLICATION NUMBER: 60/080328
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 ; PRIOR FILING DATE: 1998-04-01
 ; PRIOR APPLICATION NUMBER: 60/080334
 ; PRIOR FILING DATE: 1998-04-01
 ; PRIOR APPLICATION NUMBER: 60/081070
 ; PRIOR FILING DATE: 1998-04-08
 ; PRIOR APPLICATION NUMBER: 60/081049

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 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085580
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085573
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085704
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697

Query Match: 100.0%; Score: 1806; DB: 11; Length: 344;
 Best Local Similarity: 100.0%; Pred. No. 1.7e-150; Indels: 0; Gaps: 0;
 Matches: 344; Conservative: 0; Mismatches: 0

QY	1	MTIOPKMHNSISWAIETGLAALCLFQGVVRSRSDATFPKAMDNVTVRGSATLRCTID	60
DB	1	MTIOPKMHNSISWAIETGLAALCLFQGVVRSRSDATFPKAMDNVTVRGSATLRCTID	60
QY	61	NRVTRVAMLNSTILYAGNDKWCCLDRVLLSNTQYISIEIONVDVYDEGYTCVSQTD	120
DB	61	NRVTRVAMLNSTILYAGNDKWCCLDRVLLSNTQYISIEIONVDVYDEGYTCVSQTD	120
QY	121	NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHHISPKRAGFV	180
DB	121	NHPKTSRVHLIVQSPKIVEISSDISINEGNNISLTCIATGRPEPTVTVRHHISPKRAGFV	180
QY	181	SEDEXLEIQGITREQSGDYECSSASNDVAAPVVRVVKVTVNYPYIIEAKGTGVPVQKGT	240
DB	181	SEDEXLEIQGITREQSGDYECSSASNDVAAPVVRVVKVTVNYPYIIEAKGTGVPVQKGT	240
QY	241	LOCEASAVPSAEFQWKDDKRLTEGKGVKVENRPFSLKLIFFNVSEHDYGYNTCVASNK	300
DB	241	LOCEASAVPSAEFQWKDDKRLTEGKGVKVENRPFSLKLIFFNVSEHDYGYNTCVASNK	300
QY	301	LIGHTNASIMLFGPGAVSEVSNGTSSRACGVWLLPLLVHLLKLF	344
DB	301	LIGHTNASIMLFGPGAVSEVSNGTSSRACGVWLLPLLVHLLKLF	344

RESULT 10
 US-09-978-564A-523
 ; Sequence 523, Application US/09978564A
 ; Publication No. US20030050241A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker, Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.

APPLICANT: Grimaldi, J. Christopher
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APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: P2630PIC25
CURRENT APPLICATION NUMBER: US/09/978,564A
PRIOR FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-04-30
PRIOR APPLICATION NUMBER: 60/084366
PRIOR FILING DATE: 1998-05-05
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 PRIOR APPLICATION NUMBER: 60/085573
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 PRIOR APPLICATION NUMBER: 60/085704
 PRIOR FILING DATE: 1998-05-15
 PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0% Score 1806 DB 11 Length 344
 Best Local Similarity 100.0% Pred. No. 1.7e-150 Indels 0 Gaps 0
 Matches 344 Conservative 0 Mismatches 0
 QY 1 MKTIQPKMNSISWAIFTGLAALCLFGQVPRSGDAPPKAMDNTVVRQGESATLRCTID 60
 DB 1 MKTIQPKMNSISWAIFTGLAALCLFGQVPRSGDAPPKAMDNTVVRQGESATLRCTID 60
 QY 61 NRVTRVWNLNRSTILYAGNDKWCCLDPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
 DB 61 NRVTRVWNLNRSTILYAGNDKWCCLDPRVLLSNTQTSIEIQNVVDYDEGPTCSVQTD 120
 QY 121 NHPKTSRVHLIVQVSPKIVEISSDINSINEGNNISLTCTATGRPEPTVTRHISPRKAVGFV 180
 DB 121 NHPKTSRVHLIVQVSPKIVEISSDINSINEGNNISLTCTATGRPEPTVTRHISPRKAVGFV 180
 QY 181 SEDEYLEIOGIREQSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
 DB 181 SEDEYLEIOGIREQSGDYECASNDVAAPVVRVKVTVNPPYIIEAKGTGVPVQKGT 240
 QY 241 LOCEASAVPSAEFQYKDKRLTEGKGVKVENRPFLLSKLIFFNVSEHDYGNVTCVSNK 300
 DB 241 LOCEASAVPSAEFQYKDKRLTEGKGVKVENRPFLLSKLIFFNVSEHDYGNVTCVSNK 300
 QY 301 LGHTNASIMLFGPGAVSEVSGNSTRAGCVWLLPLLVLRLLKLF 344
 DB 301 LGHTNASIMLFGPGAVSEVSGNSTRAGCVWLLPLLVLRLLKLF 344

RESULT 11
 US-09-999-833A-523
 Sequence 523, Application US/09999833A
 Publication No. US20030054405A1
 GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
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 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P26301C65
 CURRENT APPLICATION NUMBER: US/09/999,833A
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Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
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241	LO	CE	AS	AP	VS	AE	PO	NY	K	DD	K	R	L	I	EG	K	V	K	Y	EN	RP	FL	S	K	L	I	FF	N	Y	SE	H	D	Y	GN	Y	T	CS	VA	SN	K					300		

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 DB 1 MXTIOPKHNISWAIETGLAALCLFQGVPRSGDATFPKAMDNVTVROGESATILRCTID 60

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 DB 61 NRTRVAVLNRSTILYAGNDKWCCLDPVLLSNTQTOYSIEIQNVDDVDEGPTCSVQTD 120
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 DB 121 NHPKTSRVHLIVQVSPKIVEISSDISINEGNNISLTCIATGRPEPTVTRHISPKAVGFV 180
 QY 181 SEDEYLIQIGITREQSGDYECASNDVAAAPVVRVKVTVVTPPYPISEAKGTGVPVQCKT 240
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 DB 301 LGHTNASIMLFGPGAVSEVSNGTSTRAGCVWLLPLLLVLLHLKPF 344

RESULT 13
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 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Olang
 ; APPLICANT: Gerber, Hanspeter
 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
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Oy 241 LCEASAVPSAEFOWYKDDRLIEGKGVKVENRPFSLKIFFNVSEHDYGNVTCVASNK 300
Db 241 LCEASAVPSAEFOWYKDDRLIEGKGVKVENRPFSLKIFFNVSEHDYGNVTCVASNK 300
Oy 301 LGHTNASIMLFGPGAVSEVSGNSTRAGCWWLLPLLVHLHLKPF 344
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; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Fertara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
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; APPLICANT: Kljavin, Ivar J.
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; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
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PRIOR APPLICATION NUMBER: 60/085338
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PRIOR APPLICATION NUMBER: 60/085582
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085700
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/086023

Query Match 100.0%; Score 1806; DB 11; Length 344;
Best Local Similarity 100.0%; Pred No 1.7e-150;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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DB 301 LGHTNASIMLFGFCAYSEVSNCTSRACCVWLLPLLVHLLKLF 344

RESULT 15
US-09-978-423A-523
Sequence 523; Application US/09978423A
Publication No. US20030069178A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kijavins, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;
APPLICANT: Pao, Nicholas F.

APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2630F1C21
CURRENT APPLICATION NUMBER: US/09/9778,423A
CURRENT FILING DATE: 2002-05-16
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
PRIOR APPLICATION NUMBER: 60/062250
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PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085573
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085704
PRIOR FILING DATE: 1998-05-15
PRIOR APPLICATION NUMBER: 60/085697

Query Match 100.0%; Score 1806; DB 11; Length 344;
Best Local Similarity 100.0%; Pred. No. 1.7e-150;
Matches 344; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Oy 1 MKTIOPKMHNSISWAIETGLAALCFQGVPRSGDATFPKAMDNVTVRQESATLRCTID 60
Db 1 MKTIOPKMHNSISWAIETGLAALCFQGVPRSGDATFPKAMDNVTVRQESATLRCTID 60
Oy 61 NRVTVMNLNSTILYAGNDKWCIDPRVLLSNTOYSTEIONVDVDEGPTCSVQTD 120
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Oy 121 NHPKTSRVHLIVQSPKIVEISSISINEGNNISLTCTATGRPEPTVWRHISPKAVGFV 180
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Oy 181 SEDEVLETOGTREQSDYECSSANDVAAPVVRVKVTVNPYPYISEAKGTGVPVGOKGT 240
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Oy 241 LOCEASAVPSAEFQWKDDRRLEGKGVKVENRPFLSKLIFFNVSEHDYGNITCVASNK 300
Db 241 LOCEASAVPSAEFQWKDDRRLEGKGVKVENRPFLSKLIFFNVSEHDYGNITCVASNK 300
Oy 301 LGHTNASIMLEPGCAVSEVSNGTSSRAGCVWLLPLLVHLLKLF 344
Db 301 LGHTNASIMLEPGCAVSEVSNGTSSRAGCVWLLPLLVHLLKLF 344

Search completed: September 11, 2003, 03:07:32
Job time : 53 secs

GenCore version 5.1.6
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OM protein - nucleic search, using frame_plus_p2n model

Run on: September 11, 2003, 03:06:34 : Search time 4576 Seconds
(without alignments)
3075.374 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

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Scoring table: BLOSUM62

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Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 2888711 seqs, 20454813386 residues

Total number of hits satisfying chosen parameters: 5777422

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-OUTFMF=pcr -NORM=ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

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2	1806	100.0	1679	6	AX362365	AX362365 Sequence
3	1806	100.0	1679	6	AX403748	AX403748 Sequence
4	1806	100.0	1679	6	AX454470	AX454470 Sequence
5	1806	100.0	1679	6	AX454242	AX454242 Sequence
6	1806	100.0	1679	6	AX490948	AX490948 Sequence
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9	1650	91.4	1068	6	AX655344	AX655344 Sequence
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11	1644	91.0	1104	6	AX655346	AX655346 Sequence
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16	1477.5	81.8	1257	5	GCCEP01	272497 G.gallus mr
17	1428	79.1	1058	5	AF292935	AF292935 Gallus ga
18	1427.5	79.0	1035	5	AB011810	AB011810 Gallus ga
19	1393	77.1	1638	12	AF271233	AF271233 Synthetic
20	1357.5	75.2	1013	5	AF292936	AF292936 Gallus ga
21	1306.5	72.3	3216	5	GCCEPUS	AF225897 Gallus ga
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35	932.5	51.6	1640	9	BC033803	BC033803 Homo sapi
36	931.5	51.6	1017	9	HS041901	U41901 Human limbi
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ALIGNMENTS

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DEFINITION Sequence 125 from Patent WO0193983.
ACCESSION AX358872
VERSION AX358872.1 GI:18675337
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A.,
Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Smith, V., Stephan, J.P.,
Watanabe, C.K., and Wood, W.I.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0193983-A 125 13-DEC-2001;
Genentech Inc. (US)
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Db 1094 AACGGCACGTCAGGAGGGGAGGCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
Oy 341 LeuLeuLysPhe 344
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RESULT 2
LOCUS AX362365 1679 bp DNA linear PAT 15-FEB-2002
DEFINITION Sequence 125 from Patent WO0208288.
ACCESSION AX362365
VERSION AX362365.1 GI:18694640
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Baker, K.P., Desnoyers, L., Gerritsen, M.E., Goddard, A.,
Godowski, P.J., Grimaldi, J.C., Gurney, A.L., Smith, V., Stephan, J.P.,
Watanabe, C.K., and Wood, W.I.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
the same
JOURNAL Patent: WO 0208288-A 125 31-JAN-2002;
Genentech, Inc. (US)
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VERSION AX403748.1 GI:21437184
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Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE 1
AUTHORS Ashkenazi, A., Baker, K., Botstein, D., Desnoyers, L., Eaton, D.L.,
Ferrara, N., Fong, S., Gao, W.Q., Gerber, H., Gerritsen, M.E.,
Goddard, A., Godowski, P., Gurney, A., Kijavini, I.J., Mather, J.,
Napier, M., Pan, J., Paoni, N., Roy, M., Tamas, D., Watanabe, C.,
Williams, P.M., Wood, W.I. and Zhang, Z.
TITLE Secreted and transmembrane polypeptides and nucleic acids encoding
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JOURNAL Patent: WO 077037-A 103 21-DEC-2000;
Genentech Inc. (US)
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Pred. No.: 6 676-158 Length: 1679
Score: 1806.00 Matches: 344
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 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Euthera; Primates; Catarrhini; Hominidae; Homo.
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 Baker.K.P., Ferrara.N., Gerber.H., Gerritsen.M.E., Goddard.A.,
 Godowski.P.J., Gurney.A.L., Hillan.K.J., Marsters.S.A., Pan.J.,
 Paoni.N.F., Stephan.J.P., Watanabe.C.K., Williams.P.M., Wood.W.I.
 and Ye.W.
 Compositions and methods for the diagnosis and treatment of
 disorders involving angiogenesis
 Patent: WO 0208284-A 55 31-JAN-2002;
 Genentech, Inc. (US); Baker, Kevin P. (US); Ferrara, Napoleone
 (US); Gerber, Hanspeter (US); Gerritsen, Mary E. (US); Goddard,
 Audrey (US); Godowski, Paul J. (US); Gurney, Austin L. (US);
 Hillan, Kenneth J. (US); Marsters, Scott A. (US); Pan, James (US);
 Paoni, Nicholas F. (US); Stephan, Jean-Philippe F. (US);
 Watanabe, Colin K. (US); Williams, P. Mickey (US); Wood, William
 I. (US)

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 Pred. No.: 1679
 Score: 1806.00 Matches: 344

Percent similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
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REFERENCE 1 (bases 1 to 1410)
AUTHORS Kim,T.H., Choi,S.C., Kim,J., Jeon,J.W., Kim,K.D. and Lee,S.H.
TITLE Cloning and expression of mouse neurotrophin gene in the developing
nervous system
JOURNAL Unpublished
REFERENCE 2 (bases 1 to 1410)
AUTHORS Kim,T.H., Choi,S.C., Kim,J., Jeon,J.W., Kim,K.D. and Lee,S.H.
TITLE Direct Submission
JOURNAL Submitted (27-JUN-2000) Graduate School of Biotechnology, Korea
University, 1,5-ka Anam-dong Sungbuk-ku, Seoul 136-701, Korea
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 1 (bases 1 to 1325)
 Klausner,R.D., Collins,F.S., Wagner,L.H., Derge,J.G.,
 Altchul,S.F., Zeeberg,B., Buetow,K.H., Schaefer,C.F., Bhat,N.K.,
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 Schnerch,A., Schein,J.E., Jones,S.J. and Marra,M.A.
 Generation and initial analysis of more than 15,000 full-length
 human and mouse cDNA sequences
 Proc. Natl. Acad. Sci. U.S.A. 99 (26), 16899-16903 (2002)
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 2 (bases 1 to 1325)
 Strausberg,R.
 Direct Submission
 Submitted (08-APR-2003) National Institutes of Health, Mammalian
 Gene Collection (MGC), Cancer Genomics Office, National Cancer
 Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2590,
 USA
 NIH-MGC Project URL: http://mgc.nci.nih.gov
 Contact: MGC help desk
 Email: cgapbs-r@mail.nih.gov
 Tissue Procurement: ATCC/DC/DTF
 cDNA Library Preparation: Life Technologies, Inc.
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LINL)
 DNA Sequencing by: Sequencing Group at the Stanford Human Genome

Center, Stanford University School of Medicine, Stanford, CA 94305
 Web site: http://www-shgc.stanford.edu
 Contact: (Dickson, Mark) mcdpaxil.stanford.edu
 Dickson, M., Schmutz, J., Grimwood, J., Rodriguez, A., and Myers,
 R. M.
 Clone distribution: MGC clone distribution information can be found
 through the I.M.A.G.E. Consortium/LINL at: http://image.lnl.gov
 Series: IRAK Plate: 110 Row: m Column: 8
 This clone was selected for full length sequencing because it
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171	HisIleSerProLysAlaValGlyPheValSerGluAspGluTyrLeuGluIleGlnGly	190
172		
525	CACATCTCTCCCAAGCGGTGGCTTTGTGAGTGAAGACGAATACTTGGAAATTCAGGGC	584
191	IleThrArgGluGlnSerGlyAspTyrGluCysSerAlaSerAsnAspValAlaAlaPro	210
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585	ATACCCGGGAGCAGTCAGGGGACTACGATGCACTGCCTCCCAATGACGTGGCGCGGCC	644
211	ValValArgArgVallLysValThrValAsnTyrProProTyrIleSerGluAlaLysGly	230
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645	GTGGTACGGAGATGAAGGTCACCGCTGACATTCACCACATACATTTCAAGACCAAGGCT	704
231	ThrGlyValProValGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaValProSer	250
232		
705	ACAGGTGTCCCGCTGGGACAAAGGGACACTGCAGTGTGAAGCCCTACAGACTCCCCCTCA	764
251	AlaGluPheGlnTrrPyrLysAspAspLysArgLeuIleGluGlyLysLysGlyValLys	270
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765	GCAGAAATTCAGCTGGGTACAAGGATGCACAAAGACTGATTTGAAGGAAAGAAAGGGGTCAAA	824
271	ValGluAsnArgProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAspTyr	290
272		
825	GTGGAAAACAGACTTCTCTCTCAAAACTCATCTCTCTTCAATGTCTCTCAACATGACTAT	884
291	GlyAsnTyrThrCysValAlaSerAsnLysLeuGlyHisThrAsnAlaSerIleMetLeu	310
292		
885	GGGAACATACATTGCGTGGCCTCCCAACAGCTGGGCCACACCAATGCCAGCATCATGCTA	944
311	PheGly 312	
945	TTTTGGT 950	

Search completed: September 11, 2003, 04:30:29
Job time : 4595 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: September 11, 2003, 03:05:48 ; Search time 359 Seconds
(without alignments)
2586.648 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIQPMHNSISWIFTGL.....RRAGCVMLPLLVHLLKLF 344

Scoring table:

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Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 2552756 seqs, 1349719017 residues

Total number of hits satisfying chosen parameters: 5105512

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Command line parameters:

-MODEL-frame_p2n.model -DEV-rlp
-O/cgn2.1/USPRO_spool_P/US10017084/runat_09092003_141325_21860/app.query.fasta_1.519
-DB-N.Geneseq_19Jun03 -QMT-fastap -SUFFIX-p2n.rng -MINMATCH=0.1 -LOOPEL=0
-LOOPEXT=0 -UNITS-bits -START=1 -END=1 -MATRIX-blosum62 -TRANS-human40.cdi
-LIST=45 -DOALIGN=200 -THR_SCORE=pct -THR_MAX=100 -THR_MIN=0 -ALIGN=15
-MODE-LOCAL -OUTFMT=ptc -NORM-ext -HEAPSIZE=500 -MINLEN=0 -MAXLEN=2000000000
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-NO_MMAP -LARGEQUERY -NEG_SCORES=0 -WAIT -DSPBLOCK=100 -LONGLOC
-DEV_TIMEOUT=120 -WARN_TIMEOUT=30 -THREADS=1 -XGAPOP=10 -XGAPEXT=0.5 -FGAPOP=6
-FGAPEXT=7 -YGAPOP=10 -YGAPEXT=0.5 -DELOP=6 -DELEXT=7

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22: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2001A.DAT.*
23: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2001B.DAT.*
24: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2002.DAT.*
25: /SIDSL/gcgdata/geneseq/geneseq-emb1/NA2003.DAT.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed,

and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query Match %	Score	Length	DB ID	Description
1	1806	100.0	1032	21	AAZ47892 Human protein enco
2	1806	100.0	1679	20	AAZ34324 Human PRO337 nucle
3	1806	100.0	1679	21	AAC78590 Human PRO337 nucle
4	1806	100.0	1679	22	AAS21431 Human cDNA sequenc
5	1806	100.0	1679	22	AAC87037 Nucleotide sequenc
6	1806	100.0	1679	24	ABL95588 Human anglogenesis
7	1806	100.0	1679	24	ABL88099 Human PRO337 cDNA
8	1806	100.0	1679	24	ABK33598 cDNA encoding huma
9	1806	100.0	1679	25	ACA60526 Novel human secret
10	1806	100.0	1679	25	ACA03790 cDNA encoding huma
11	1806	100.0	1679	25	ACA04211 Human cDNA encodin
12	1806	100.0	1679	25	ACA04516 Novel human secret
13	1806	100.0	1679	25	ACA04996 Novel human secret
14	1806	100.0	1679	25	ABX89328 DNA encoding novel
15	1806	100.0	1679	25	ABX92696 cDNA encoding huma
16	1806	100.0	1693	21	AAZ47893 Human protein enco
17	1799	99.6	1603	21	AAZ88790 Human SECX cDNA Cl
18	1799	99.6	2012	21	AAZ88791 Human SECX cDNA Cl
19	1756	97.2	1873	24	ABK49272 Human kruppel asso
20	1752	97.0	1890	22	AAI59655 Human polynucleoti
21	1665.5	92.2	1678	22	AAI57869 Lung cancer-associ
22	1665.5	92.2	1839	25	ABX76448 Human protein enco
23	1642	90.9	939	21	AAZ47894 Rat oploid recepto
24	1286.5	71.2	3069	14	AAQ51015 Rat oploid recepto
25	1260	69.8	2179	14	AAQ51017 Rat oploid recepto
26	1259	69.7	2337	14	AAQ51016 Human secreted exp
27	1173	65.0	1832	21	AAA44536 Human limbic syste
28	932.5	51.6	1411	24	AAZ50560 Human cDNA #560 d1
29	931.5	51.6	1195	25	ABX53560 Rat LAMP coding se
30	926.5	51.3	1014	17	AAT42081 Rat LAMP coding se
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33	913	50.6	1307	17	AAT42116 Human LAMP residue
34	908	50.3	924	17	AAT42084 Rat LAMP residues
35	907	50.2	945	17	AAT42085 Rat mature LAMP co
36	905	50.1	930	17	AAT42083 Human mature LAMP co
37	902	49.9	912	17	ABZ76264 Human GENSET cDNA
38	893	49.4	1757	25	ABZ76264 Rat LAMP residues
39	886.5	49.1	861	17	AAT42086 Human colon cancer
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41	885	49.0	1153	22	AAZ34325 Human EST DNA42301
42	859	47.6	503	20	AAZ34325 Human EST DNA42301
43	859	47.6	503	21	AAZ78591 Human PRO337 EST p
44	859	47.6	503	25	ABX92697 Human NOV12a enco
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ALIGNMENTS

RESULT 1

AAZ47892

ID AAZ47892 standard; cDNA; 1032 BP.

XX AAZ47892;

XX 10-MAR-2000 (first entry)

XX Human protein encoding cDNA SEQ ID NO:2

XX Human: haematopoietic cell regulation; tissue generation; repair;

XX activin; inhibin; taxis; chemotaxis; blood coagulation; thrombus;

XX receptor; ligand; autoimmunity; infection-related immunodeficiency;

XX inflammatory disorder; neurological disease; ss.

XX Homo sapiens.

XX


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PR 17-MAR-1998; 98US-0040220.
PR 20-MAR-1998; 98US-0078886.
PR 20-MAR-1998; 98US-0078910.
PR 20-MAR-1998; 98US-0078936.
PR 20-MAR-1998; 98US-0078936.
PR 25-MAR-1998; 98US-0079294.
PR 26-MAR-1998; 98US-0079656.
PR 27-MAR-1998; 98US-0079663.
PR 27-MAR-1998; 98US-0079664.
PR 27-MAR-1998; 98US-0079689.
PR 27-MAR-1998; 98US-0079728.
PR 27-MAR-1998; 98US-0079786.
PR 30-MAR-1998; 98US-0079920.
PR 30-MAR-1998; 98US-0079923.
PR 31-MAR-1998; 98US-0080105.
PR 31-MAR-1998; 98US-0080107.
PR 31-MAR-1998; 98US-0080165.
PR 31-MAR-1998; 98US-0080194.
PR 01-APR-1998; 98US-0080327.
PR 01-APR-1998; 98US-0080328.
PR 01-APR-1998; 98US-0080333.
PR 01-APR-1998; 98US-0080334.
PR 08-APR-1998; 98US-0081049.
PR 08-APR-1998; 98US-0081070.
PR 08-APR-1998; 98US-0081071.
PR 09-APR-1998; 98US-0081195.
PR 09-APR-1998; 98US-0081203.
PR 09-APR-1998; 98US-0081229.
PR 15-APR-1998; 98US-0081817.
PR 15-APR-1998; 98US-0081838.
PR 15-APR-1998; 98US-0081952.
PR 15-APR-1998; 98US-0081955.
PR 21-APR-1998; 98US-0082568.
PR 21-APR-1998; 98US-0082569.
PR 22-APR-1998; 98US-0082700.
PR 22-APR-1998; 98US-0082704.
PR 22-APR-1998; 98US-0082804.
PR 23-APR-1998; 98US-0082767.
PR 23-APR-1998; 98US-0082796.
PR 27-APR-1998; 98US-0083336.
PR 28-APR-1998; 98US-0083322.
PR 29-APR-1998; 98US-0083392.
PR 29-APR-1998; 98US-0083495.
PR 29-APR-1998; 98US-0083496.
PR 29-APR-1998; 98US-0083499.
PR 29-APR-1998; 98US-0083500.
PR 29-APR-1998; 98US-0083545.
PR 29-APR-1998; 98US-0083554.
PR 29-APR-1998; 98US-0083558.
PR 29-APR-1998; 98US-0083559.
PR 30-APR-1998; 98US-0083742.
PR 05-MAY-1998; 98US-0084366.
PR 05-MAY-1998; 98US-0084414.
PR 05-MAY-1998; 98US-0084441.
PR 07-MAY-1998; 98US-0084598.
PR 07-MAY-1998; 98US-0084600.
PR 07-MAY-1998; 98US-0084627.
PR 07-MAY-1998; 98US-0084637.
PR 07-MAY-1998; 98US-0084639.
PR 07-MAY-1998; 98US-0084640.
PR 07-MAY-1998; 98US-0084643.
PR 13-MAY-1998; 98US-0085323.
PR 13-MAY-1998; 98US-0085338.
PR 13-MAY-1998; 98US-0085339.
PR 15-MAY-1998; 98US-0085573.
PR 15-MAY-1998; 98US-0085579.
PR 15-MAY-1998; 98US-0085580.
PR 15-MAY-1998; 98US-0085582.
PR 15-MAY-1998; 98US-0085689.
PR 15-MAY-1998; 98US-0085697.
PR 15-MAY-1998; 98US-0085700.
PR 15-MAY-1998; 98US-0085704.
PR 15-MAY-1998; 98US-0085709.
PR 15-MAY-1998; 98US-0086023.

PR 22-MAY-1998; 98US-0086392.
PR 22-MAY-1998; 98US-0086414.
PR 22-MAY-1998; 98US-0086430.
PR 22-MAY-1998; 98US-0086486.
PR 28-MAY-1998; 98US-0087098.
PR 28-MAY-1998; 98US-0087106.
PR 28-MAY-1998; 98US-0087208.
PR 30-JUL-1998; 98US-0094651.
PR 11-SEP-1998; 98US-0100038.
XX (GETH ) GENENTECH INC.
XX
XX Wood WI, Goldard A, Gurney A, Yuan J, Baker KP, Chen J;
XX WPI: 1999-551358/46.
XX P-PSDB; AA41773.
DR
DR
XX
XX New secreted and transmembrane polypeptides and their polynucleotides,
XX useful for treating blood coagulation disorders, cancers and cellular
XX adhesion disorders
XX
XX Claim 2; Fig 221; 530pp; English.
XX
XX The present invention describes secreted and transmembrane polypeptides
XX and their polynucleotides. The nucleotide sequences are useful as
XX sources of probes, primers, for chromosome mapping, and for generation
XX of antisense sequences. They can also be used to create transgenic
XX animals. The proteins can be used to treat a variety of diseases and
XX disorders, depending on their function. Diseases that may be treated
XX include blood coagulation disorders, cancers and cellular adhesion
XX disorders. They may also be used to raise antibodies. AA233891 to
XX AA234338, and AA41685 to AA41774 represent polynucleotide and
XX polypeptide sequence given in the exemplification of the present
XX invention.
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Alignment Scores:
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Percent Similarity: 100.00% Conservative: 0
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Query Match: 100.00% Indels: 0
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Qy 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
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Qy 101 GluIleGlnAsnValAspValThrAspGluClyProTyrThrCysSerValGlnThrAsp 120
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Db 494 AACCAACCAAGACCTCTAGGTCACCTCATTTGTGCAAGTATCTCCCAAAATGTAGAG 553
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 Db 614 GGTAGACAGACGCTACGGTTACTTGGAGACACATCTCTCCAAAGCGGTGGCTTTGTG 673
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 Qy 341 LeuLeuLysPhe 344
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 DT 08-FEB-2001 (first entry)
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 DE Human PRO337 nucleotide sequence SEQ ID NO:522.
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 KW Human; secreted protein; transmembrane protein; PRO; EST; cytotstatic;
 KW expressed sequence tag; detection; cancer; ss.
 OS Homo sapiens.
 XX
 PN WO200053756-A2.
 XX
 PD 14-SEP-2000.
 XX
 PF 18-FEB-2000; 2000WO-US04341.
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 PR 08-MAR-1999; 99WO-US05028.
 PR 12-MAR-1999; 99US-0123957.
 PR 29-MAR-1999; 99US-0126773.
 PR 21-APR-1999; 99US-0130232.
 PR 28-APR-1999; 99US-0131445.
 PR 14-MAY-1999; 99US-0134287.

PR 23-JUN-1999; 99US-0141037.
 PR 26-JUL-1999; 99US-0145698.
 PR 29-OCT-1999; 99US-0162506.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28551.
 PR 02-DEC-1999; 99WO-US28565.
 PR 16-DEC-1999; 99WO-US30095.
 PR 30-DEC-1999; 99WO-US31243.
 PR 05-JAN-2000; 99WO-US31274.
 PR 06-JAN-2000; 2000WO-US00219.
 PR 06-JAN-2000; 2000WO-US00277.
 PR 06-JAN-2000; 2000WO-US00376.
 (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein D, Desnovers L, Eaton DL;
 XX Ferrara N, Filvaroff E, Fong S, Gao W, Garber H, Gerritsen ME;
 XX Goddard A, Godowski PJ, Grimaldi CJ, Gurney AL, Hillan KJ;
 XX Kljavin IJ, Kuo SS, Napier MA, Pan J, Paoni NF, Roy MA;
 XX Shelton DL, Stewart TA, Tumas D, Williams PM, Wood WI;
 XX WPI: 2000-611443/58.
 DR P-PSDB; AAB44329.
 XX
 PT Novel PRO polypeptides and polynucleotides used in detection methods,
 PT to target bioactive molecules to specific cells, and to modulate
 PT cellular activities.
 XX
 PS Claim 2; Fig 221; 636pp; English.
 XX
 CC AAC78458 to AAC78599 represent polynucleotide and EST (expressed
 CC sequence tag) sequences which encode secreted or transmembrane PRO
 CC polypeptides. The PRO polynucleotides and polypeptides have cytotstatic
 CC activity. The polynucleotides and polypeptides can be used for detecting
 CC the presence of PRO polypeptides in samples, for linking bioactive
 CC molecules to cells and for modulating biological activities of cells,
 CC using the polypeptides for specific targeting. The polypeptide targeting
 CC can be used to kill the target cells, e.g. for the treatment of cancers.
 CC The polypeptide pairs provide specific targeting of bioactive molecules
 CC to cells. AAC78600 to AAC78987 represent PCR primers and probes used in
 CC the isolation of the PRO polynucleotide sequences.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
 Alignment Scores:
 Pred. No.: 8,55e-167 Length: 1679
 Score: 1806.00 Matches: 344
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 21 Gaps: 0
 US-10-017-084A-523 (1-344) x AAC78590 (1-1679)
 Qy 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
 Db 134 ATGAACACCATTCAGCAAAATGCAATTCATCTCTGGGCAATCTTCACGGGGCTG 193
 Qy 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 Db 194 GCTGCTCTGTCTCTTCCAGGAGTGTCCGTCGCGAGCGGAGATGCCACCTTCCCAAA 253
 Qy 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 Db 254 GCTATGGACAACCGTCAGCGTCCGCGAGGGAGAGCGCCACCTCAGTGGCTATTGAC 313
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 Db 314 AACCGGTGTACCCGGGTGGCTGGCTAAACCGCAGCACCACCTCTCTATGTGGGAATGAC 373
 Qy 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
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DB 434 GAGATCCAGACGGTGGATGCTATGACGAGGCGCCCTTACACCTGCTCGTGACAGAC -493
OY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB 494 AACCAACCAAGACCTCTAGGTCACCTCATTTGCAAGTATCTCCCAAAATTTAGAG 553
OY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTCTCTCAGATATCTCCATTAAAGGGAACATATTAGCTCCCTGCATCAACT 613
OY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGACGAGCGCTACGTTACTTGGAGACACATCTCTCCAAAGCGTTGGCTTTTG 673
OY 181 SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
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OY 201 CysSerAlaSerAsnAspValAlaIleProValValArgValValValValValAsn 220
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OY 221 TyrProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
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OY 261 ArgLeuIleGluGlyLysGlyValLysValLysValGluAsnArgProPheLeuSerLysLeu 280
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OY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
DB 974 ATCTCTTCATGCTCTGACATGACTATGGGAACTACACTTGGCTGGCTCCCAACAG 1033
OY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 1034 CTGGCCACACCAATGCCAGCATCTATTGCTCCAGCGCCGTCACGCGAGGTGAGC 1093
OY 321 AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuValLeuHisLeu 340
DB 1094 AAGCGCAGCTCAGAGGAGGAGGAGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
OY 341 LeuLeuLysPhe 344
DB 1154 CTCTCAAAATTT 1165
RESULT 4
AAS21431
ID AAS21431 standard; cDNA; 1679 BP.
AC AAS21431;
XX
XX
XX 24-OCT-2001 (first entry)
XX
XX Human cDNA sequence encoding for PRO337 polypeptide.
XX
XX Human secretory and transmembrane; PRO; mammalian; cancer; lung;
KW breast; prostate; cervical; tumour necrosis factor-alpha; TNF-alpha;
NW cartilage; ear; proliferation; glucose; free fatty acid; skeletal muscle;
KW adipocyte; A-peptide; factor VIIA; gene therapy; ss.
XX
OS Homo sapiens.
XX
XX WO200140466-A2.
XX
XX 07-JUN-2001.
PD
```

```
XX 01-DEC-2000; 2000WO-US32678.
XX
XX 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 02-DEC-1999; 99WO-US28565.
PR 09-DEC-1999; 99US-0170262.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 30-DEC-1999; 99WO-US31243.
PR 06-JAN-2000; 2000WO-US00577.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.
PR 20-MAR-2000; 2000WO-US07377.
PR 21-MAR-2000; 2000WO-US07532.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 10-NOV-2000; 2000WO-US30873.
XX
XX (GETH ) GENENTECH INC.
XX
XX Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W;
PI Garritsen WE, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
PI Smith V, Stewart RA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX
XX WPI: 2001-408281/43.
XX P-PSDB: AAU12359.
XX
XX Isolated, secretory and transmembrane PRO polypeptide used to detect
other PRO polypeptides, link bioactive molecules to cells expressing
PRO polypeptides, and detect the presence of mammalian tumours e.g.
lung, breast, prostate, cervical
XX
XX Claim 3; Fig 375; 813pp; English.
XX
XX AAS21244-AAS21518 encode for novel human secretory and transmembrane
PRO polypeptides. The PRO polypeptides are useful to detect other
PRO polypeptides, to link bioactive molecules to cells expressing
PRO polypeptides, to modulate biological activities of cells expressing
PRO polypeptides, and to detect the presence of mammalian lung, colon,
breast, prostate, rectal, cervical or liver tumours by comparing PRO
polypeptide expression in a cell sample to that in a control sample.
Some of the 275 sequences are also useful to stimulate the release of
tumour necrosis factor-alpha (TNF-alpha) from human blood, the
proliferation or differentiation of chondrocytes, the proliferation or
gene expression in pericyte cells, the release of proteoglycans from
cartilage, the proliferation of inner ear utricular supporting cells or
of T-lymphocytes, the release of a cytokine from peripheral blood
monocytes (PBMCs), or the proliferation of endothelial cells. Some of
the PRO polypeptides may modulate glucose or free fatty acid uptake by
skeletal muscle cells or by adipocytes; or inhibit binding of A-peptide
to factor VIIA. The PRO polypeptides can be used in assays to identify
molecules involved in binding interactions. The polynucleotides encoding
PRO polypeptides can be used to generate probes, antisense RNA/DNA,
transgenic or knock out animals and can be used in gene therapy.
XX
XX Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
SQ
Alignment Scores:
Pred. No.: 8,55e-167 Length: 1679
Score: 1806.00 Matches: 344
```


Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 100.00%
 DB: 22
 Conservative: 0
 Mismatches: 0
 Indels: 0
 Gaps: 0

US-10-017-084A-523 (1-344) x AAS21431 (1-1679)

QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTTPAlaIlePheThrGlyLeu 20
 DB 134 ATGAAACCATCAGCCAAATTCATCTCTTGGCAATCTTCACGGGGCTG 193
 QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 DB 194 GCTGCTGTGTCTCTTCCAGGAGTCCGCGCGAGGAGATGCCACTTCCCAANA 253
 QY 41 AlaMetAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 DB 254 GCTATGGACAACGTGACGCTCCGCGAGGGGAGAGCCACCTCAGGTGCATATTGAC 313
 QY 61 AsnArgValThrArgValAlaIleThrLeuAsnArgSerThrIleLeuThrAlaGlyAsnAsp 80
 DB 314 AACCGSGTCACCGGGTGGCTGCTGCTAACCGGAGCAGCATCTCTATGCTGGGAATGAC 373
 QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTrpSerIle 100
 DB 374 AAGTGTGCTGGATCCGCGGTGGTCTCTGAGCAACACCCAAACGACAGTACAGCATC 433
 QY 101 GluIleGlnAsnValAspValTyArgGluGlyProTyThrCysSerValGlnThrAsp 120
 DB 434 GAGATCCAGAAGTGGATGTGTATGACGAGGGCCCTTACACCTGCTCGGTGCAGACAGAC 493
 QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
 DB 494 AACCAACCAAGACCTCTAGGTCACCTCATTGTGCAAGTATCTCCCAAAATGTGTAGAG 553
 QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAnIleSerLeuThrCysIleAlaThr 160
 DB 554 ATTTCTTCAGATATCTCATTAATGAAGGAACAATATTAGCTCCTACCTGCATAGCACT 613
 QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 DB 614 GSTAGACAGAGCTACGGTTACTTGGACACACATCTCTCCCAAGGGTGGCTTTGTG 673
 QY 181 SerGluAspGluTyLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTrpGlu 200
 DB 674 AGTGAAGACGAACTTGGAAATTCAGGCAATCACCAGGAGAGTACAGGAGTACAGAG 733
 QY 201 CysSerAlaSerAsnAspValAlaIleProValValArgValLysValThrValAsn 220
 DB 734 TGCAGTGCCTCAATGACGTGGCGCGCGCGGTGGTGGAGAGTAAAGTCAACCTGAAC 793
 QY 221 TyrProProTyThrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
 DB 794 TATCCACCATCATTTTCAGAACCAAGGTACAGGTGTCCCGTGGGACAAAAGGGGACA 853
 QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyLysAspAspLys 260
 DB 854 CTCGAGTGTGAAGCCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAGGATGACAAA 913
 QY 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
 DB 914 AGACTGATTGAAGCAAGAAAGGGTGAAGTGAAGCAACAGACTTCTCTCAAAACTC 973
 QY 281 IlePhePheAsnValSerGluHisAspTyArgLysAsnTrpThrCysValAlaSerAsnLys 300
 DB 974 ATCTCTTCATGCTGCTGACATGACTATGGAGACATACACTTGGCTGGCCCTCCAAACAG 1033
 QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
 DB 1034 CTGGGCCACCAATGCCAGCATCATGCTATTGGTCCAGGCCCTCAGGAGGTGAGC 1093
 QY 321 AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340

DB 1094 AACGGCACGTGAGGAGGCGAGCGTGGCTGGCTGGCTCTTCTTGTGCTTGCACCTG 1153
 QY 341 LeuLeuLysPhe 344
 DB 1154 CTCTCAATTT 1165
 RESULT 5
 AAC87037
 ID AAC87037 standard. CDNA: 1679 BP.
 XX AAC87037;
 AC AAC87037;
 XX AAC87037;
 DT 20-APR-2001 (first entry)
 XX
 DE Nucleotide sequence of human polypeptide PRO337.
 XX
 KW Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
 PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1361; PRO1308;
 PRO183; PRO1272; PRO1419; PRO4999; PRO170; PRO248; PRO353; PRO1318;
 KW PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356;
 KW PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630;
 KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy;
 KW ss.
 XX
 OS Homo sapiens.
 XX
 FH Key Location/Qualifiers
 FT CDS 134..1168
 FT sig_peptide 134..216
 FT /*tag= a
 FT /*tag= b
 XX
 PN WO200077037-A2.
 XX
 PD 21-DEC-2000.
 PF 22-MAY-2000; 2000WO-US14042.
 XX
 PR 15-JUN-1999; 99US-0139695.
 PR 20-JUL-1999; 99US-0145070.
 PR 26-JUL-1999; 99US-0145698.
 PR 17-AUG-1999; 99US-0149396.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 02-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 PR 07-DEC-1999; 99US-0169495.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05841.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 17-MAY-2000; 2000WO-US13705.
 XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 Godowski FJ, Gurney AL, Kijavlin IJ, Mather JP, Napier MA, Pan J;
 Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 Wood WI, Zhang Z;
 WPI; 2001-050091/06.
 DR P-PSDB; AAB31204.
 XX
 PT Isolated nucleic acid molecule encoding a PRO polypeptide which is a

transmembrane polypeptide is useful for gene therapy and identification of related polypeptides -

Claim 2: Fig 51: 244pp: English.

The present sequence encodes a human secreted and transmembrane polypeptide. The specification describes human polypeptides, designated PRO136, PRO44, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288, PRO365, PRO361, PRO1308, PRO1183, PRO1272, PRO1419, PRO4999, PRO170, PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO533, PRO301, PRO187, PRO337, PRO1411, PRO3356, PRO246, PRO265, PRO941, PRO10096, PRO6003, PRO6004, PRO3350, PRO2630 and PRO6309. The biological activity of cells can be modulated with agents that bind to these polypeptides, resulting in the death of the cells. The polynucleotides encoding these polypeptides are useful in the recombinant production of the polypeptides, as a hybridisation probe to screen libraries to isolate homologous sequences, or to map the gene. They may also be used for analysing genetic disorders, and to produce transgenic animals which are useful for the development and screening of therapeutically useful reagents. The polynucleotides can also be used in gene therapy e.g. to replace a defective gene.

Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Alignment Scores:

Pred. No.: 8.55e-167 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 22 Gaps: 0

US-10-017-084a-523 (1-344) x AAC87037 (1-1679)

QY 1 MetLysThrIleGlnProLysMethHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB 134 ATGAAACATCCAGCCAGCAAAATGCAATTCATCTCTGGGCAATCTTCACGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTGTCTCTCTCCAAAGAGTGGCGTGGCGAGGAGATGCCACCTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGACAACGTGACGGTCCGGCAGGGGAGAGCCACCTCAGGTGCATATTGAC 313
QY 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuTyrAlaClyAsp 80
DB 314 AACCGGTTCACCGGTGGCTGGCTTAAACCGAGCAGCATCTCTATGCTGGGAAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrClnTyrSerile 100
DB 374 AAGTGCTCTGGATCTCTCGTGGTCTCTGAGCAACCAACCAACGAGGATGACATC 433
QY 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGAACGPGATGTATGACGAGGCGCTTACACCTGCTCGGTGCACACAGAC 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValcIu 140
DB 494 AACCAACCAAGACCTCTAGGTGCCACCTCATTTGCAAGTATCTCCCAAAATTTGAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCTTCACCTGCATGACCACT 613
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GCTAGACACAGCCTACGGTACTTGGAGACACATCTCTCCCAAGCGGTGGCTTTGTG 673
QY 191 SerGluAspGluTyrLeuGluIleGlnGlyThrArgGluClnSerGlyAspTyrGlu 200
DB 674 AGTGAAGACGATCTGGAAATCAGGGCAATCAGGGGAGCGATGAGGAGTACGAG 733

QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValIleValThrValAsn 220
DB 734 TGCAGTGCCTCAATGACGTGGCGCCGCTGACGAGAGTAAAGGTCAACGCTGAAC 793
QY 221 TyrProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
DB 794 TATCCACCACATATTCAGAACCCAAAGGTACAGGTGTCCCGTGGGACAAAGGGGACA 853
QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrTyrLysAspAspLys 260
DB 854 CTGCAGTGTGAAGCCTCAGCAGTCCCTCAGCAGAGATTCAGTGTGATCAAGATGATCA 913
QY 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
DB 914 AGACTGATTGAAGAAAGAAAGGGTGAAGTGGAAACAGACCTTCTCTCAAACTC 973
QY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAspLys 300
DB 974 ATCTCTCAATGTCTCTGACATGCTATGGGAATCTACATGCTGCTGCTCTCTTGTGCTTGCACCTG 1033
QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 1034 CTGGGCCACCAATGCCAGCATCATGCTATTGGTCCAGGCGCGTCCAGCGGTGAGC 1093
QY 321 AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuLeuValHisLeu 340
DB 1094 AACGGCAGCTCGAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1153
QY 341 LeuLeuLysPhe 344
DB 1154 CTCTCAAAATTT 1165
RESULT 6
ABL95588
ID ABL95588 standard; cDNA; 1679 BP.
XX ABL95588;
AC ABL95588;
DT 19-JUL-2002 (first entry)
XX Human angiogenesis related cDNA PRO337 SEQ ID NO: 55.
DE Human;
KW Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer;
KW atherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder;
KW cardiant; cyostatic; antiangiogenic; hypotensive; vulnerary;
KW antiarteriosclerotic; gene; ss.
XX Homo sapiens.
OS WC200208284-A2.
PN 31-JAN-2002.
XX 09-JUL-2001; 2001WO-US21735.
XX 20-JUL-2000; 2000US-219556P.
PR 25-JUL-2000; 2000US-220624P.
PR 25-JUL-2000; 2000US-220664P.
PR 28-JUL-2000; 2000WO-US20710.
PR 02-AUG-2000; 2000US-222695P.
PR 17-AUG-2000; 2000US-0643657.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 07-SEP-2000; 2000US-230978P.
PR 15-SEP-2000; 2000US-000000P.
PR 18-SEP-2000; 2000US-0664510.
PR 18-SEP-2000; 2000US-0665250.
PR 24-OCT-2000; 2000US-2428220.
PR 08-NOV-2000; 2000US-0709238.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.

PR 20-DEC-2000; 2000US-0747259.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 22-JAN-2001; 2001US-0767609.
 PR 28-FEB-2001; 2001US-0796498.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0808689.
 PR 22-APR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0854208.
 PR 10-MAY-2001; 2001US-0854280.
 PR 25-MAY-2001; 2001US-0866028.
 PR 25-MAY-2001; 2001US-0866034.
 PR 25-MAY-2001; 2001US-0817092.
 PR 30-MAY-2001; 2001US-0870572.
 PR 30-MAY-2001; 2001WO-US17443.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 28-JUN-2001; 2001WO-US00000.
 XX (GETH) GENENTECH INC.
 PA (SAKE/) BAKER K P.
 PA (FERR/) FERRARA N.
 PA (GERB/) GERBER H.
 PA (GERR/) GERRITSEN M E.
 PA (GODD/) GODDARD A.
 PA (GODO/) GODOWSKI P J.
 PA (GURN/) GURNEY A L.
 PA (HILL/) HILLAN K J.
 PA (MARS/) MARSTERS S A.
 PA (PANJ/) PAN J.
 PA (PAON/) PAONI N F.
 PA (STEP/) STEPHAN J F.
 PA (WATA/) WATANABE C K.
 PA (WILL/) WILLIAMS P M.
 PA (WOOD/) WOOD W I.

WPI: 2002-171999/22.

P-PSDB; ABB95450.

PI Baker KP, Ferrara N, Gerber H, Grittisen ME, Goddard A, Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF, Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides, useful in diagnosis and treatment of cardiovascular (e.g. myocardial infarction), endothelial or angiogenic disorders in a mammal.
 PS Claim 1: Fig 55; 567pp; English.
 CC The present invention provides the protein and coding sequences of human PRO proteins. These are useful for treating or diagnosing a cardiovascular, endothelial or angiogenic disorder, including cardiac hypertrophy, trauma, cancer, age-related macular degeneration, atherosclerosis, hypertension, arterial stenosis, rheumatoid arthritis, angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour angiogenesis (such as breast carcinoma and liver carcinoma) and wound healing. The present sequence is a coding sequence of the invention.

XX SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Alignment Scores:
 Pred. No.: 8,55e-167 Length: 1679
 Score: 1806.00 Matches: 344
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 24 Gaps: 0

US-10-017-084A-523 (1-344) x ABL95588 (1-1679)

Qy 1 MetLysThrLeuGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20

134 ATGAAACCATCCAGCCAAAAATGCACAAATCTATCTCTTGGCAATCTTTCACGGGGCTG 193
 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 194 GCTGCTCTGTCTCTTCCAGGAGTGCCTGCGCAGGGAGATGCCACCTTCCCAAA 253
 41 AlaMetAspAsnValThrValArgGlnGlyLeuSerAlaThrLeuArgCysThrIleAsp 60
 254 GCTATGGACACAGTGCAGCGTCCGCGAGGGGAGAGCCACCTCAGGTGCATATTGAC 313
 61 AspArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuThrAlaGlyAsnAsp 80
 314 AACCGGTCAACCGGGTGCCTGCTTAACCGCAGCACCACCTCTATGCTGGGAAATGAC 373
 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
 374 AAGTGTGCTGATCTCTGCTGCTCTCTGAGCAGCAGCCCAACGAGTACAGCATC 433
 101 GluIleGlnAsnValIleAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
 434 GAGATCCAGACAGTGGATGTGTATGACGAGGGCCCTTACCTGCTCGGTGCAGACAGAC 493
 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
 494 AACCAACCAAGACCTTAGGGTCCACCTCATTTGTGCAAGTATCTCCCAAAATTTAGAG 553
 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 554 ATTTCTTCAGATATCTCCATTAATGAAGGAGCAATATTAGCTCAGCTCAGCTCAGCACT 613
 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 614 GGTAGACAGAGCTACGGTTACTTGTGAGACACATCTCTCCCAAGCGGTGGCTTTGTG 673
 181 SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
 674 AGTGAAGAGCAATCTTGGAAATTCAGCGGCATCCACCGGAGCAGTACGGGGACTACGAG 733
 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValArgValValThrValAsn 220
 734 TGCAGTGCCTCAATGACGTGCGCCGCCCGCTGGTACGGAGAGTAAAGGTCACCGTGAAC 793
 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlnGlnLysGlyThr 240
 794 TATCCACCATACATTCAGAGCCAGAGGTACAGGTGTCCTCCGTGGGCAAAAGGGGACA 853
 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrTyrLysAspAspLys 260
 854 CTGCAAGTGTGAGCCCTCAGCAGTCCCTCAGCAGAAATCCAGTGTGTCAGAGGATGACAA 913
 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
 914 AGACTGATTGAAGGAAAGAGGGGTGAAAGTGGAAACAGACACCTTCTCTCAAAACTC 973
 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
 974 ATCTTCTTCAATGCTCTCTGAACATGACTATGGGAACATACACTTGGTGGCTCCCAACAG 1033
 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyValAlaValSerGluValSer 320
 1034 CTGGGCCACCAATGCCAGCATCATCTATTGGTCCAGGCGCGTCAGCGAGGTGAGC 1093
 321 AsnGlyThrSerArgArgAlaGlyCysValThrLeuLeuProLeuValLeuHisLeu 340
 1094 AACGGCACGTCCAGGAGGGAGGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
 341 LeuLeuLysPhe 344
 1154 CTCTCAAAATT 1165

RESULT 7
 ABL88099

Db 134 ATGAATACCATCCAGCAAAATGACAAATCTATCTCTTGGGCAATCTTCCAGGGGCTG 193
Oy 21 AlaAlaLeucylSerGlyValProValArgSerGlyAlaThrPheProLys 40
Db 194 GCTGCTCTGTCTCTTCCAAGAGTGCCTGGCGAGGAGATGCCACCTTCCCAAA 253
Oy 41 AlaMetAspAsnValThrValArgGlnGlySerAlaThrLeuArgCysThrIleAsp 60
Db 254 GCTATGGACAACGTGACGCTCCGGCAGGGGAGAGCCACCTCAGGTGCACATATGAC 313
Oy 61 AsnArgValThrArgValAlaIlePLeuAsnArgSerThrIleLeuTyAlaGlyAsnAsp 80
Db 314 AACCGGGTCACCGGGTGGCTGCTAAACCGCAGCACCATCTCTATGCTGGGAATGAC 373
Oy 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrSerIle 100
Db 374 AAGTGTGCTGGATCTCGCGTGTCTTCTGAGCAACACCAACGACGATCAGCATC 433
Oy 101 GluIleGlnAsnValAspValTyArgValGlyProTyThrCysSerValGlnThrAsp 120
Db 434 GAGATCCAGAACGTGGATGTATGACGAGGGCCCTTACACCTGCTCGTGCACACAGAC 493
Oy 121 AsnHisProLysThrSerArgValHisIleuIleValGlnValSerProLysIleValGlu 140
Db 494 AACCAACCAAGACCTCTAGGTGCCATCTATGTGCAAGTATCTCCCAAAATGTAGAG 553
Oy 141 IleSerSerAspIleSerIleAsnGlnGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
Db 554 ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCACCCTGATGACAACT 613
Oy 161 GlyArgProGluProThrValThrIleThrIleThrIleThrIleThrIleThrIleThr 180
Db 614 GGTAGCAGACGCTACGCTTCTTGGAGACACATCTCTCCCAAGCGGTGGCTTTGTG 673
Oy 181 SerGluAspGluTyLeuGluIleGlnGlyIleThrArgGlnGlnSerGlyAspTyGlu 200
Db 674 AGTGAAGACGAATCTTGGAAATTCAGGGGCATCACCGGGGAGCAGTCAAGGACTAGCAG 733
Oy 201 CysSerAlaSerAsnAspValAlaIleProValValArgValLysValThrValAsn 220
Db 734 TGCAGTGCCTCAATGACGTGGCGCGCGCTGTACGGAGAGTAAGGTCAACGTGAAC 793
Oy 221 TyrProTyIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
Db 794 TATCCACCATACATTCAGAACCCAGGGTACAGTGTCCCGTGGGACAAAGGGGACAA 853
Oy 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyIleAspAspLys 260
Db 854 CTGCACTGTGAAGCCACAGCTCCCTCAGCAGAAATCCAGTGGTACAAAGATGACAAA 913
Oy 261 ArgLeuIleGluGlyLysLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
Db 914 AGACTGATTTGAAGAAAGAGGGTGAAGTGAAGAAACAGACCTTCTCTCAAAACTC 973
Oy 281 IlePhePheAsnValSerGluHisAspTyArgLysAsnTyThrCysValAlaSerAsnLys 300
Db 974 ATCTCTTCAATGCTCTGAACATGACTATGGAACTACACTTGGCTGGCTCCCAACAAAG 1033
Oy 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
Db 1034 CTGGGCCACCAATGCCAGCATCATGTATTTGGTCCAGGCGCGCTCAGGAGGTGAGC 1093
Oy 321 AsnGlyThrSerArgArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340
Db 1094 AACGCGACGTCGAGGAGGCGAGCTGCTGTGGCTGTGCTCTTCTGTGCTTTCACCTG 1153
Oy 341 LeuLeuLysPhe 344
Db 1154 CTCTCAAAATTT 1165
RESULT 11
ACA04211

ID ID ACA04211 standard; cDNA; 1679 BP.
XX AC ACA04211;
XX DT 27-MAY-2003 (first entry)
XX DE Human cDNA encoding a secreted/transmembrane protein, SEQ ID 375.
XX XX Human; ss; gene; secreted protein; transmembrane protein; PRO;
KW KW Inflammatory disease; organ failure; atherosclerosis; cardiac injury;
KW KW infertility; birth defects; premature aging; AIDS; biosensor;
KW KW acquired immunodeficiency syndrome; cancer; diabetic complication;
KW KW bioReactor; tumour.
XX OS Homo sapiens.
XX PN US2003032155-A1.
XX PD 13-FEB-2003.
XX PF 03-MAY-2002; 2002US_0137865.
XX PR 31-MAR-1997; 97WO-US05230.
PR 12-JUN-1998; 98WO-US14556.
PR 14-JUL-1998; 98WO-US14552.
PR 28-AUG-1998; 98WO-US17888.
PR 10-SEP-1998; 98WO-US18824.
PR 14-SEP-1998; 98WO-US19093.
PR 14-SEP-1998; 98WO-US19094.
PR 14-SEP-1998; 98WO-US19177.
PR 16-SEP-1998; 98WO-US19330.
PR 17-SEP-1998; 98WO-US19437.
PR 07-OCT-1998; 98WO-US21141.
PR 29-OCT-1998; 98WO-US22991.
PR 29-OCT-1998; 98WO-US22992.
PR 20-NOV-1998; 98WO-US24855.
PR 01-DEC-1998; 98WO-US25108.
PR 05-JAN-1999; 99WO-US00106.
PR 08-MAR-1999; 99WO-US05028.
PR 10-MAR-1999; 99WO-US05190.
PR 20-APR-1999; 99WO-US08615.
PR 14-MAY-1999; 99WO-US10733.
PR 02-JUN-1999; 99WO-US12252.
PR 01-SEP-1999; 99WO-US20111.
PR 08-SEP-1999; 99WO-US20594.
PR 13-SEP-1999; 99WO-US20944.
PR 15-SEP-1999; 99WO-US21090.
PR 15-SEP-1999; 99WO-US21547.
PR 05-OCT-1999; 99WO-US21089.
PR 29-NOV-1999; 99WO-US28214.
PR 30-NOV-1999; 99WO-US28313.
PR 30-NOV-1999; 99WO-US28409.
PR 01-DEC-1999; 99WO-US28301.
PR 01-DEC-1999; 99WO-US28634.
PR 02-DEC-1999; 99WO-US28551.
PR 02-DEC-1999; 99WO-US28564.
PR 16-DEC-1999; 99WO-US30095.
PR 20-DEC-1999; 99WO-US30911.
PR 20-DEC-1999; 99WO-US30999.
PR 22-DEC-1999; 99WO-US30720.
PR 30-DEC-1999; 99WO-US31243.
PR 30-DEC-1999; 99WO-US31274.
PR 05-JAN-2000; 2000WO-US00219.
PR 06-JAN-2000; 2000WO-US00277.
PR 06-JAN-2000; 2000WO-US00376.
PR 11-FEB-2000; 2000WO-US03565.
PR 18-FEB-2000; 2000WO-US04341.
PR 18-FEB-2000; 2000WO-US04342.
PR 22-FEB-2000; 2000WO-US04414.
PR 24-FEB-2000; 2000WO-US04914.
PR 24-FEB-2000; 2000WO-US05004.
PR 01-MAR-2000; 2000WO-US05601.

PR 02-MAR-2000; 2000WO-US05746.
PR 10-MAR-2000; 2000WO-US05841.
PR 15-MAR-2000; 2000WO-US06319.
PR 20-MAR-2000; 2000WO-US06884.
PR 21-MAR-2000; 2000WO-US07377.
PR 30-MAR-2000; 2000WO-US08439.
PR 17-MAY-2000; 2000WO-US13705.
PR 22-MAY-2000; 2000WO-US14042.
PR 30-MAY-2000; 2000WO-US14941.
PR 02-JUN-2000; 2000WO-US15264.
PR 28-JUL-2000; 2000WO-US20710.
PR 11-AUG-2000; 2000WO-US22031.
PR 23-AUG-2000; 2000WO-US23522.
PR 24-AUG-2000; 2000WO-US23328.
PR 08-NOV-2000; 2000WO-US30952.
PR 10-NOV-2000; 2000WO-US30873.
PR 01-DEC-2000; 2000WO-US32678.
PR 20-DEC-2000; 2000WO-US34956.
PR 28-FEB-2001; 2001WO-US06520.
PR 01-MAR-2001; 2001WO-US06666.
PR 25-MAY-2001; 2001WO-US17092.
PR 01-JUN-2001; 2001WO-US17800.
PR 20-JUN-2001; 2001WO-US19692.
PR 22-JUN-2001; 2001WO-US20116.
PR 26-JUN-2001; 2001WO-US21066.
PR 09-JUL-2001; 2001WO-US21735.
PR 28-DEC-2000; 2000US-0747259.
PR 28-FEB-2001; 2001US-0786438.
PR 19-MAR-2001; 2001US-0802706.
PR 14-MAR-2001; 2001US-0808689.
PR 22-MAR-2001; 2001US-0816744.
PR 05-APR-2001; 2001US-0828366.
PR 10-MAY-2001; 2001US-0854208.
PR 10-MAY-2001; 2001US-0854280.
PR 18-MAY-2001; 2001US-0860216.
PR 25-MAY-2001; 2001US-0866028.
PR 25-MAY-2001; 2001US-0866034.
PR 01-JUN-2001; 2001US-0872035.
PR 05-JUN-2001; 2001US-0874503.
PR 14-JUN-2001; 2001US-0882636.
PR 19-JUN-2001; 2001US-0886342.
PR 21-JUN-2001; 2001US-0887879.
PR 18-JUL-2001; 2001US-0908827.
PR 06-AUG-2001; 2001US-0924419.
PR 09-AUG-2001; 2001US-0927796.
PR 16-AUG-2001; 2001US-0931836.
PR 19-DEC-2001; 2001US-0028072.
XX (GETH) GENENTECH INC.
XX Baker KP, Beresini M, DeForge L, Desnoyers L, Filvaroff E, Gao W;
XX Gerritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S;
XX Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
XX P-PSDB; AB067033.
XX WPI: 2003-331925/31.
XX P-PSDB; AB067033.
XX New secreted and transmembrane nucleic acids and polypeptides,
XX designated as PRO, useful for treating inflammation, organ failure,
XX atherosclerosis, cardiac injury, infertility, birth defects, premature
XX aging, AIDS, or cancer
XX Claim 2: Fig 375; 659pp; English.
XX The invention relates to an isolated nucleic acid comprising, or which is
XX at least 80% identical to, or the full-length coding sequence of, any of
XX the 275 nucleotide sequences, encoding the corresponding PRO polypeptide
XX (one of 275 secreted or transmembrane proteins). The nucleic acid
XX further comprises the full-length coding sequence of the DNA deposited
XX under American Type Culture Collection (ATCC) accession number in a list
XX given in the specification. Also included are vectors and host
XX cells for producing PRO proteins, PRO fusion proteins, anti-PRO

CC antibodies, PRO extracellular domains and mature sequences, methods
CC of detecting PRO proteins, methods for stimulating the release of
CC TNF-alpha (tumour necrosis factor alpha) from human blood,
CC (and the proliferation of differentiation of chondrocyte cells, the
CC proliferation of, or gene expression in pericyte cells, the release of
CC proteoglycans from cartilage, proliferation of inner ear utricular
CC supporting cells, the proliferation of T-lymphocyte cells, the release
CC of a cytokine from peripheral blood mononuclear cells (PBMC), or the
CC proliferation of endothelial cells), a method for modulating the uptake
CC of glucose or free fatty acid (FFA) by skeletal muscle cells,
CC a method for inhibiting the binding of A-peptide to factor VIIA,
CC or the differentiation of adipocyte cells, a method for detecting the
CC presence of a tumour in a mammal and an oligonucleotide probe derived
CC from any of the nucleotide sequences cited above. The nucleic acids and
CC polypeptides are useful for treating inflammatory diseases, organ
CC failure, atherosclerosis, cardiac injury, infertility, birth defects,
CC premature aging, AIDS (acquired immunodeficiency syndrome), cancer, or
CC diabetic complications. The nucleic acids are useful as hybridisation
CC probes, in chromosome and gene mapping, and in generating antisense RNA
CC or DNA. The polypeptides are useful as pharmaceuticals, diagnostics,
CC biosensors or bioreactors. Both are useful in tissue typing.
XX The present sequence encodes a PRO protein of the invention.
XX
SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Alignment Scores:
Pred. No.: 8.55e-167 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 25 Gaps: 0

US-10-017-084A-523 (1-344) x ACA04211 (1-1679)
QY 1 MetLysThrIleGlnProLysMethHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB 134 ATGAAACCATCCAGCAAAATGCAAAATCTATCTCTTGGCAATCTTCACGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTGTGTCTCTTCCAGGAGTGCCTGCGAGCGGAGATGCCACCTTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGCAACCTGACGGTCCGCGAGGGGAGAGCGCCACCTCAGGTGCATATTGAC 313
QY 61 AsnArgValThrArgValAlaThrIleuAsnArgSerThrIleuThrAlaGlyAsnAsp 80
DB 314 ACCGGGTACCCGGGTGGCTGCTTCCAGGAGTGCCTGCGAGCGGAGATGCCACCTTCCCAAA 373
QY 81 LysTrpCysIleuAspProArgValValLeuLeuSerAsnThrGlnThrGlnThrSerIle 100
DB 374 AAGTGGTCCCTGGATCTCGGTGCTCTTCTGAGCAACCAACCAACGATCAGCATC 433
QY 101 GluIleGlnAsnValAspValThrAspGlnGlyProThrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGAACCTGGATGTGTATGACGAGGGGCGCCCTTACACCTGCTCGGTGACAGAC 493
QY 121 AsnHisProLysThrSerArgValHisIleuValIleGlnValSerProLysIleValGlu 140
DB 494 AACCACCAAGAACCTCTAGGTCCTCATTTGTGCAAGTATCTCCCAAAATTTGTAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerIleThrCysIleAlaThr 160
DB 554 ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCCTCACCCTCATAGCAACT 613
QY 161 GlyArgProGlnProThrValThrArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGCAGAGACCTACGGTTACTTGGAGACACATCTCTCCCAAGCGGTGCTTGTG 673
QY 181 SerGluAspCluThrIleuGlnIleGlnGlyIleThrArgGluGlnSerGlyAspThrGlu 200

DR
XX New secreted and transmembrane polypeptide for modulating biological
XX activity of a cell expressing the polypeptide, identifying agonists or
XX antagonists of the polypeptide, and as molecular weight markers
XX Claim 2: Fig 51: 254pp; English.
PS

WPI: 2003-341963/32.
P-FSDB; ABU67182.

claim 2: Flg 51; 254pp; English.

The invention describes an isolated, secreted and transmembrane polypeptide (I). PRO187, PRO337, PRO4111, (II) Is useful for detecting polypeptide (I), PRO187, PRO337, PRO4111, PRO0096, PRO2146, PRO6307, PRO0003, PRO6004, PRO4356, PRO2630, PRO2455, PRO0941, fibroblast growth factor receptor (FGFR)-4, FGFR-3, toxin, radiolabel or antibody, and for linking a bioactive molecule e.g. TGF α , radiolabel or antibody, to a cell expressing the polypeptides. The bioactive molecule causes cell death. (II) is useful as hybridisation probes in chemoprevention of cancer mapping, in generation of antisense Nucleic Acids, in chromosome preparation of PRO polypeptide for genetic analysis and for the development and screening of which are especially useful reagents, and for the genetic analysis of individuals with genetic disorders, in gene therapy, and for chromosome identification. (I) Or Ab is useful for the preparation of medicament or treating conditions which are responsive to the PRO polypeptide or anti-PRO antibody e.g. a tumour. (I) is useful for treating obesity, diabetes or hypo- or hyper-insulinaemia, and cardiac insufficiency disorders, for inhibiting tumour growth, enhances vascular permeability and immune response, for inducing regrowth of lost body hair cells and for treating hearing loss in mammals. (I) is useful for treating bone and/or cartilage disorders such as osteoporosis, osteoarthritis, joint injury and arthritis. This sequence has been deposited at the European Patent Office under the name of "Secreted and transmembrane polypeptide".

XX- sequence: 1679 BP: 498 A: 432 C: 419 G: 330 T: 0 other; 50

Alignment Scores:	8.55e-167	Length:	1679
Pred. No.:	1806.00	Matches:	344
Score:	100.00%	Conservative:	0
Percent Similarity:	100.00%	Mismatches:	0
Best Local Similarity:	100.00%	Indels:	0
Query Match:	100.00%	Gaps:	0
	25		

US-10-017-084A-523 (1-344) X ACA04516 (1-1679)

Qy	1	MetLysThrIleGlnProLysMethHisAsnSerIleSerThrPAlaIlePheThrGlyLeu	20
Db	134	ATGAACACCATCCAGCAAAATGCAAAATTCATCTCTGGCCAACTTCACGGGGCTG	193
Qy	21	AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys	40
Db	194	GCTGCTCTGTGCTCTCCAAAGAGTGGCCGTGGCAGGAGATGCCCATCTCCCCAAA	253
Qy	41	AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrIleuArgCysThrIleasp	60
Db	254	GCTATTGGACAAGCTGACGGCTCGCGAGGGGAGAGCGCCACCTCAGGTGCTATTGAC	313
Qy	61	AsnArgValThrArgValAlaIleTrpLeuAsnArgSerThrIleuIleuArgAlaCysAsnasp	80
Db	314	AACCGGGTCAACCGGGTGGCTGGCTTAACCGCAGCACCACCATCTCTATCTGGGAGATGAC	373
Qy	81	LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTrpSerIle	100
Db	374	AACTGGTGGCTCGATCTCCGCTGGTCTCTGAGCAACACCACACGGATGACAGCTC	433
Qy	101	GluIleGlnAsnValAspValTyAspGluGlyProTyrThrCysSerValGlnThrAsp	120
Db	434	GAGATCCAGAACGTGGATGTGTATGACGAGGGCCCTTACACCTGCTGGTGGACAGACAG	493
Qy	121	AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu	140
Db	494	AACCAACCAAGACCTCTAGGGTCCACCTCATTTGCAAGTATCTCCCAAAATGTGAG	553
Qy	141	IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerIleuThrCysIleAlaThr	160

554	DB	ATTTCTCAGATATCTCCATTATTCAGAGGGAACAATATTAGCTTCACCTCCATAGCAACT	613
161	QY	GlyArgProGluProthrValThrTrpArgHisIleSerProLysAlaValGlyPheVal	180
614	DB	GGTAGACCAAGAGCCTACGCTTACTTGGAGACACATCTCCCAAGACGGTGTGCTTTGTG	673
181	QY	SerGluAspGluThrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu	200
674	DB	AGTGAAGACGATACCTTGGAAATTCAGGGCATCACCCGGGAGCAGCTCAGGGGACTACGAG	733
201	QY	CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn	220
734	DB	TGCAGTGGCTCCCATGATCGCGCGCCGCTGGTACGGAGAGTAAGAGTCCAGCGTGAAC	793
221	QY	TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr	240
794	DB	TATCCACCATACATTTCCAGAAAGCAAGGCTACAGGTGTCCCGTGGGACAAAGGGGACA	853
241	QY	LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAspLys	260
854	DB	CTGCAGTGTGAAGCCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAGAGATTGACAA	913
261	QY	ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu	280
914	DB	AGACTGATTCGAAGAAAGAAAGGGGTGAAAGTGGAAACACAGACTTCTCTCTCAAACTC	973
281	QY	IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys	300
974	DB	ATCTTCTTCAAATGCTCTCTGAACATGACTATGGAACTACACTTGCCTGGCCCTCCACACAG	1033
301	QY	LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer	320
1034	DB	CTGGGCGCACACCAATGCCAGCATCATGCTATTGTGTCCAGGCGCCGTACAGGAGTGAGC	1093
321	QY	AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuValLeuHisLeu	340
1094	DB	AACGGCAGCTCGAGGAGGCGAGGTGGGTCTGGCTGCTGCTCTCTGTCTTGCACTG	1153
341	QY	LeuLeuLysPhe	344
1154	DB	CTTCTCAAAATTT	1165
RESULT 13			
ACAA04996	ID	ACA04996 standard; cDNA; 1679 BP.	
AC	AC	ACA04996:	
XX	XX		
XX	XX	28-MAY-2003 (first entry)	
XX	XX	Novel human secreted and transmembrane protein PRO337 cDNA.	
XX	DE	Secreted and transmembrane polypeptide; PRO polypeptide; PRO533;	
KW	KW	PRO301; PRO187; PRO337; PRO1411; PRO1096; PRO246; PRO6307; PRO6003;	
KW	KW	PRO6004; PRO4356; PRO2630; PRO265; PRO941; EGRF; bioactive molecule;	
KW	KW	fibroblast growth factor receptor; cell death; chromosome mapping;	
KW	KW	gene mapping; transgenic animal; knockout animal; gene therapy;	
KW	KW	tumour; obesity; diabetes; insulinemia; vascular permeability;	
KW	KW	cardiac insufficiency disorder; immune response; hearing loss;	
KW	KW	auditory hair cell regeneration; bone disorder; cartilage disorder;	
KW	KW	sports injury; arthritis; gene; ss.	
XX	OS	Homo sapiens.	
XX	XX	US2003032063-A1.	
XX	PN	13-FEB-2003.	
XX	PD	01-FEB-2002; 2002US-0066494.	
XX	PF	14-SEP-1998; 98WO-US19093.	
XX	XX	16-SEP-1998; 98WO-US19330.	
XX	PR		

PR 17-SEP-1998; 98WO-US19437.
 PR 20-NOV-1998; 98WO-US24855.
 PR 25-NOV-1998; 98WO-US25190.
 PR 01-DEC-1998; 98WO-US25108.
 PR 08-MAR-1999; 99WO-US05028.
 PR 02-JUN-1999; 99WO-US12252.
 PR 01-SEP-1999; 99WO-US20111.
 PR 08-SEP-1999; 99WO-US20594.
 PR 15-SEP-1999; 99WO-US21090.
 PR 15-SEP-1999; 99WO-US21547.
 PR 30-NOV-1999; 99WO-US28313.
 PR 01-DEC-1999; 99WO-US28301.
 PR 02-DEC-1999; 99WO-US28565.
 PR 20-DEC-1999; 99WO-US30999.
 PR 05-JAN-2000; 2000WO-US00219.
 PR 18-FEB-2000; 2000WO-US04341.
 PR 18-FEB-2000; 2000WO-US04342.
 PR 22-FEB-2000; 2000WO-US04414.
 PR 01-MAR-2000; 2000WO-US05601.
 PR 02-MAR-2000; 2000WO-US05641.
 PR 09-MAR-2000; 2000WO-US05671.
 PR 20-MAR-2000; 2000WO-US07377.
 PR 30-MAR-2000; 2000WO-US08439.
 PR 15-MAY-2000; 2000WO-US13358.
 PR 22-MAY-2000; 2000WO-US14042.
 PR 02-JUN-2000; 2000WO-US14941.
 PR 11-AUG-2000; 2000WO-US15264.
 PR 23-AUG-2000; 2000WO-US22031.
 PR 24-AUG-2000; 2000WO-US23522.
 PR 01-DEC-2000; 2000WO-US23328.
 PR 28-FEB-2001; 2001WO-US32678.
 PR 30-MAY-2001; 2001WO-US06520.
 PR 01-JUN-2001; 2001WO-US17443.
 PR 20-JUN-2001; 2001WO-US17800.
 PR 29-JUN-2001; 2001WO-US19692.
 PR 09-JUL-2001; 2001WO-US21066.
 PR 26-AUG-1997; 97US-056974P.
 PR 17-SEP-1997; 97US-059115P.
 PR 18-SEP-1997; 97US-059263P.
 PR 19-SEP-1997; 97US-059588P.
 PR 17-OCT-1997; 97US-062285P.
 PR 24-OCT-1997; 97US-062816P.
 PR 27-OCT-1997; 97US-063082P.
 PR 29-OCT-1997; 97US-063329P.
 PR 21-NOV-1997; 97US-063733P.
 PR 25-NOV-1997; 97US-066364P.
 PR 16-DEC-1997; 97US-069694P.
 PR 09-FEB-1998; 98US-074086P.
 PR 09-FEB-1998; 98US-074092P.
 PR 25-MAR-1998; 98US-079294P.
 PR 08-APR-1998; 98US-081049P.
 PR 10-AUG-1998; 98US-095998P.
 PR 18-AUG-1998; 98US-097000P.
 PR 09-SEP-1998; 98US-099601P.
 PR 10-SEP-1998; 98US-099803P.
 PR 10-SEP-1998; 98US-099811P.
 PR 10-SEP-1998; 98US-099812P.
 PR 17-SEP-1998; 98US-100858P.
 PR 24-SEP-1998; 98US-101922P.
 PR 28-OCT-1998; 98US-106032P.
 PR 20-NOV-1998; 98US-109304P.
 PR 23-MAR-1999; 98US-125778P.
 PR 15-JUN-1999; 99US-139693P.
 PR 20-JUL-1999; 99US-145070P.
 PR 26-JUL-1999; 99US-145698P.
 PR 17-AUG-1999; 99US-149396P.
 PR 07-DEC-1999; 99US-169493P.
 PR 15-NOV-2001; 2001US-0002796.
 PR (GETH) GENENTECH INC.

XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL,
 PI Ferrarini N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Kijavirio J, Mather JP, Napier MA, Pan J,
 PI Paoni NF, Roy MA, Stewart TA, Tamas D, Watanabe CK, Williams PM,
 PI Wood WI, Zhang Z;
 XX WPI; 2003-341964/32.
 DR P-FSDB; ABU67293.
 DR XX
 PT Thirty seven nucleic acids encoding novel secreted and transmembrane
 PT PRO polypeptides, useful for modulating biological activity of cell
 PT expressing the polypeptide, and in chromosome and gene mapping
 XX
 PS Claim 2; Fig 51; 255pp; English.
 XX
 CC The invention describes an isolated, secreted and transmembrane
 CC polypeptide (I), termed PRO polypeptide. (I) is useful for detecting
 CC PRO533, PRO301, PRO187, PRO337, PRO1411, PRO10096, PRO246, PRO6307,
 CC PRO6003, PRO6004, PRO4356, PRO2630, PRO265, PRO941, fibroblast growth
 CC factor receptor (FGFR)-4, FGFR-3, FGFR-2 or FGFR-1 polypeptide, and for
 CC linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
 CC cell expressing the polypeptides. The bioactive molecule causes cell
 CC death. (II) Is useful as hybridisation probes, in chromosome and gene
 CC mapping, in generation of antisense RNA and DNA, in the preparation of
 CC PRO polypeptide, for generating transgenic animals or knockout animals
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, and for the genetic analysis of
 CC individuals with genetic disorders, in gene therapy, and for chromosome
 CC identification. (I) or Ab is useful for the preparation of medicament for
 CC treating conditions which are responsive to the PRO polypeptide or
 CC anti-PRO antibody e.g. a tumour. (I) is useful for treating obesity,
 CC diabetes or hypo- or hyper-insulinaemia, and cardiac insufficiency,
 CC disorders, for inhibiting tumour growth, enhances vascular permeability
 CC and immune response, for inducing regeneration of auditory hair cells and
 CC for treating hearing loss in mammals, and for treating bone and/or
 CC cartilage disorders such as sports injuries and arthritis. This sequence
 CC encodes a novel human secreted and transmembrane polypeptide
 CC associated oligonucleotide.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
 Alignment Scores:
 Pred. No.: 8.55e-167 Length: 1679
 Score: 1806.00 Matches: 344
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 25 Gaps: 0
 US-10-017-084A-523 (1-344) x ACA04996 (1-1679)
 QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
 Db 134 ATGAARACCATCCAGCCAAATAATGCAATCTATCTTGGCAATCTTCAGGGGCTG 193
 QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 Db 194 GTGCTGTGTCTCTTCCAAAGAGGTGCGCGGCGAGGAGATGCCACCTTCCCAAA 253
 QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 Db 254 GCTATGGACAACGTGAGGTGCGGCGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 313
 QY 61 AsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuArgCysThrIleAsp 80
 Db 314 AACCGGGTCAACCGGGTGGCTGGCTAAACCGGAGCACCCTTCAGGTGCACTATTGAC 373
 QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnThrSerIle 100
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 QY 101 GluIleGlnAsnValAspValThrAspGluGlyProThrThrCysSerValGlnThrAsp 120

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Db 434 GAGATCCAGACGCTGGATGTGTATGACGAGGGCCCTTACACCTGCTCGTGACGACAGAC 493
Oy 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
Db 494 ACCACCCAAAGACCTTAGGTCCTACCTCACTGTGCAAGTATCTCCAAATGTAGAG 553
Oy 141 IleSerSerAspIleSerIleAsnGluGlyAsnIleSerLeuThrCysIleAlaThr 160
Db 554 ATTCTTCAGATATCTCCATTATGAAGGAACAATATTAGCCCTACCTGCATGACAACT 613
Oy 161 GlyArgProGluProThrValThrIleThrArgHisIleSerProLysAlaValGlyPheVal 180
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Oy 181 SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
Db 674 AGTGAAGACGAATACTTGGAAATTCAGGGCATCACCCGGGAGCAGTCAAGGGGACTACGAG 733
Oy 201 CysSerAlaSerAsnAspValAlaAlaProValValArgArgValLysValThrValAsn 220
Db 734 TGCAGTGCCTCCAATGACGTGGCCGCCGCTGTACGGAGAGTAAAGTCAACGTGAAC 793
Oy 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
Db 794 TATCCACCATATTCAGAGCCAGGAGGTACAGGTCTCCCGTGGACAAAGGGGACAA 853
Oy 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrTyrIleAspLys 260
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Oy 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
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Oy 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
Db 974 ATCTTCTCAATGCTCTCAATGACATGATGGAACTACATGGTGGCTGGCTCCCAACAG 1033
Oy 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
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Oy 321 AsnGlyThrSerArgArgAlaGlyCysValTrpLeuLeuProLeuValLeuHisLeu 340
Db 1094 AACGGCAGTGGAGGAGGAGGCTGCTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
Oy 341 LeuLeuLysPhe 344
Db 1154 CTCTCAAAATTT 1165
RESULT 14
ABX89328
ID ABX89328 standard; cDNA; 1679 BP.
XX AC ABX89328;
XX DT 13-MAY-2003 (first entry)
XX DE DNA encoding novel secreted and transmembrane protein PR0337.
KW Human; PRO; hypertrophy of neonatal heart; angiogenesis; wound healing;
KW cardiac insufficiency disorder; cancer; tumor; immune response;
KW adrenal cortical capillary endothelial growth; c-fos induction;
KW vascular endothelial growth factor inhibition; VEGF inhibition;
KW endothelial cell growth inhibitor; T-lymphocytes cell stimulation;
KW retinal neurons cell survival; rod photoreceptor cell survival;
KW retinal disorder; retinitis pigmentosa; kidney disorder;
KW mammalian kidney mesangial cell proliferation; Berger disease;
KW dermatitis; herpeticiformis; Crohn's disease; chondrocyte proliferation;
KW chondrocyte redifferentiation; sports injury; arthritis; gene; ss.
XX OS Homo sapiens.
```

08-NOV-2000; 2000WO-US30952.
 PR 10-NOV-2000; 2000WO-US30873.
 PR 01-DEC-2000; 2000WO-US32678.
 PR 20-DEC-2000; 2000WO-US34956.
 PR 28-FEB-2001; 2001WO-US06520.
 PR 01-MAR-2001; 2001WO-US06666.
 PR 25-MAY-2001; 2001WO-US17092.
 PR 01-JUN-2001; 2001WO-US17800.
 PR 20-JUN-2001; 2001WO-US19692.
 PR 22-JUN-2001; 2001WO-US20116.
 PR 29-JUN-2001; 2001WO-US21066.
 PR 09-JUL-2001; 2001WO-US21735.
 PR 20-DEC-2000; 2000US-0747235.
 PR 28-FEB-2001; 2000US-0746238.
 PR 09-MAR-2001; 2001US-0802706.
 PR 14-MAR-2001; 2001US-0806589.
 PR 22-MAR-2001; 2001US-0816744.
 PR 05-APR-2001; 2001US-0828366.
 PR 10-MAY-2001; 2001US-0834208.
 PR 18-MAY-2001; 2001US-0834280.
 PR 25-MAY-2001; 2001US-0860216.
 PR 25-MAY-2001; 2001US-0866028.
 PR 01-JUN-2001; 2001US-0866034.
 PR 05-JUN-2001; 2001US-0872035.
 PR 14-JUN-2001; 2001US-0874503.
 PR 19-JUN-2001; 2001US-0882636.
 PR 21-JUN-2001; 2001US-0886342.
 PR 18-JUL-2001; 2001US-0887879.
 PR 06-AUG-2001; 2001US-0908827.
 PR 15-AUG-2001; 2001US-0924419.
 PR 16-AUG-2001; 2001US-0927796.
 PR 19-DEC-2001; 2001US-0931836.
 PR 19-DEC-2001; 2001US-0028072.
 PA (GETH) GENENTECH INC.
 XX
 PI Baker KP, Beresini M, Deforge L, Desnoyers L, Filvaroff E, Gao W,
 PI Geritsen ME, Goddard A, Godowski PJ, Gurney AL, Sherwood S,
 PI Smith V, Stewart TA, Tumas D, Watanabe CK, Wood WI, Zhang Z;
 XX
 DR: WPI: 2003-148238/14.
 DR: P-PSDB; AB059838.
 XX
 PI Novel isolated PRO polypeptides e.g., PRO826, PRO1068, PRO1184, PRO1346
 PI and PRO1375, which stimulate proliferation of stimulated T-lymphocytes
 PI are therapeutically useful for enhancing immune response and in cancer
 PI treatments
 FT
 XX
 PS Claim 2; Fig 375; 659pp; English.
 XX
 CC The invention describes an isolated human PRO polypeptide. The PRO
 CC polypeptides are useful in detecting PRO polypeptides in a sample, in
 CC linking a bioactive molecule to a cell expressing a PRO polypeptide, and
 CC in modulating at least one biological activity of a cell expressing a PRO
 CC polypeptide. PRO1312 stimulates hypertrophy of neonatal heart and is thus
 CC useful for treating cardiac insufficiency disorders. PRO1154 and PRO1186
 CC stimulate adrenal cortical capillary endothelial growth, and PRO536,
 CC PRO943, PRO826, PRO1068 or PRO535, PRO826, PRO819, PRO1126,
 CC PRO1360 and PRO1387 induce c-fos in endothelial cells, and are thus
 CC useful for treating conditions or disorders where angiogenesis would be
 CC beneficial, e.g. wound healing and antagonist of this polypeptide are
 CC useful for treating cancerous tumours. PRO812 inhibits vascular
 CC endothelial growth factor (VSGF) stimulated proliferation of endothelial
 CC cells and is thus useful for inhibiting endothelial cell growth in
 CC mammals which would be beneficial in inhibiting tumour growth. PRO826,
 CC PRO1068, PRO1346 and PRO1375 stimulate proliferation of
 CC stimulated T-lymphocytes and are therapeutically useful for enhancing
 CC immune response. PRO826, PRO1068 or PRO1132 enhance survival of
 CC retinal neurons cells (PRO1132 is also enhances survival/proliferation of
 CC rod photoreceptor cells) and therefore are useful for treating retinal
 CC disorders of injuries, e.g. retinitis pigmentosa, AMD. PRO819, PRO813
 CC and PRO1066 induce proliferation of mammalian kidney mesangial cells,
 CC and therefore are useful for treating kidney disorders associated with

CC decreased mesangial cell function such as Berger disease or other
 CC nephropathies associated with dermatitis, herpeticiformis or Crohn's
 CC disease. PRO1310, PRO844, PRO1312, PRO1192 and PRO1387 induce the
 CC proliferation and/or redifferentiation of chondrocytes in culture and
 CC are thus useful for treating sports injuries, and arthritis. This
 CC sequence encodes a novel human PRO protein.
 XX
 SQ Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;
 Alignment Scores:
 Pred. No.: 8,55e-167 Length: 1679
 Score: 1806.00 Matches: 344
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 25 Gaps: 0
 US-10-017-084A-523 (1-344) x ABX89328 (1-1679)
 Qy 1 MetLysThrLeuGlnProLysMetHisAsnSerIleSerTrrAlaIlePheThrGlyIeu 20
 Db 134 ATGAAAACCATCCAGCAAAATGCAAAATCTATCTCTGGGCAATCTTCACGGGCTG 193
 Qy 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 Db 194 GTCGCTGTGTCTCTTCCCAAGAGTGCCTGCGCGAGAGATGCCACCTTCCCAAAA 253
 Qy 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 Db 254 GCTATGGACAACGTCAGCGTCCGCGAGGGGAGAGCCACCTCAGGTGCACATATTGAC 313
 Qy 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuThrAlaGlyAspAsp 80
 Db 314 AACCGGTTCACCGGCTGCCTGCTAAACCGCAGCACCACCTCTATCTGTTGAATGAC 373
 Qy 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnThrSerIle 100
 Db 374 AAGTGTGCGCTGGATCTCTCGCTGCTCTTGAGCAACACCAACAGCAGTACAGATC 433
 Qy 101 GluLeuGlnAsnValAspValThrArgGlnGlyProThrThrCysSerValGlnThrAsp 120
 Db 434 GAGATCCAGAACGTGGATGTATCAGCAGGGGCCCCCTACACCTCTGCGTGCAGACAGAC 493
 Qy 121 AsnHisProLysThrSerArgValHisLeuLeuValGlnValSerProLysIleValGlu 140
 Db 494 AACCAACCAAGACCTCTAGGTCCACCTCATTTGCAAGTATCTCCCAAAATTTAGAG 553
 Qy 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 Db 554 ATTTCTTCAGATATCTCCATTAAAGAGGAACAATAATTAGCCTCACCTGCATAGCACT 613
 Qy 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 Db 614 GGTAGCCACAGGCTACGCTTATTTGGAGACACATCTCTCCCAAGCGGTGGCTTTGTG 673
 Qy 181 SerGluAspGluTrpLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTrpGlu 200
 Db 674 AGTGAAGACGAATACTTGGAAATTCAGGCGCATCCCGGGGAGCAGTACGAGT 733
 Qy 201 CysSerAlaSerAspAspValAlaAlaProValValArgArgValIleValAsn 220
 Db 734 TGCAGTGCCTCCATGACGTCGCGCGCGCTGGTAGGAGAGTAAAGGTCAACGTGAAC 793
 Qy 221 TyrProProTyrIleSerGluAlaIleGlyThrGlyValProValGlyGlnIleGlyThr 240
 Db 794 TATCCACCATACATTTTCAAGAGCAAGGTTACAGGTCTCCCGTGGGCAAAAGGGACA 853
 Qy 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrIleAspAspLys 260
 Db 854 CTGCAGTGTGAAGCCCTCACAGCTCCCTCCAGCAGAAATTCAGTGTGTACAGAGTACAAA 913
 Qy 261 ArgLeuIleGluGlyLysIleGlyValIleValIleValIleValIleValIleValIle 280

PT cartilage disorders and immune deficiencies

XX Claim 2; Fig 221; 459pp; English.

XX The present invention relates to the isolation of novel human PRO
CC polypeptides, and the polynucleotide sequences encoding them. The
CC PRO polypeptides are secreted and transmembrane proteins. The PRO
CC polypeptides are useful for detecting other PRO polypeptides for
CC linking bioactive molecules to cells expressing PRO polypeptides,
CC for modulating biological activities of cells expressing PRO
CC polypeptides, and for identifying agonists or antagonists. The
CC bioactive molecule may be a toxin, radiolabel or antibody, and causes
CC apoptosis or death of the cell. The PRO polypeptides are useful for
CC treating immune disorders, diabetes or hyper- or hypo-insulinaemia,
CC cardiac insufficiency, nervous system disorders, kidney disorders,
CC bone and cartilage disorders or arthritis, tumours, and wound healing.
CC The polynucleotide sequences encoding PRO polypeptides are useful as
CC hybridisation probes, in chromosome and gene mapping, in the generation
CC of antisense RNA and DNA, in the preparation of PRO polypeptides, for
CC generating transgenic animals or knockout animals, for the genetic
CC analysis of individuals with genetic disorders, and in gene therapy.
CC The present sequence encodes a human PRO polypeptide of the invention.
CC Note: The sequence data for this patent was obtained in electronic
CC format directly from the USPTO web site at
CC seqdata.uspto.gov/psipsDIDEntry.html.

XX SC Sequence 1679 BP; 498 A; 432 C; 419 G; 330 T; 0 other;

Alignment Scores:

Pred. No.: 8,55e-167 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 25 Gaps: 0

US-10-017-084A-523 (1-344) x ABX92696 (1-1679)

QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerThrAlaIlePheThrGlyLeu 20
DB 134 ATGNAACCATCCAGCCAAATATGCAATCTATCTTGGGCAATCTACGGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTGTGTCTCTTCCAAAGAGTGCCCGGCGAGGAGATGCCACCTTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGACAACGTGACGGTCCGGCAGGGGGAGAGCGCCACCTCAGGTGCATATTGAC 313
QY 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
DB 314 AACCGGGTCAACCGGGTGGCTGGCTAAACCGCAGCACCATCTCTATCTGGGAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
DB 374 AAGTGTGTCTGGATCTCTCGGTGGTCTCTGAGCAACACCCAAACGAGTACAGCATC 433
QY 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGACGTGGATGTGTATGACAGAGGGCCCTACACCTGCTCGGTGCAGACAGAC 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB 494 AACCCCAAGACCTCTAGGGTCCACCTCAITGTGCAAGTATCTCCCAAAATGTAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTTCTTCAGATATCTCCATTAAATGAAGGACACATATTAGCCCTCACCTGATACCACT 613
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGACACGAGCCTACGGTTACTTGGAGACACATCTCTCCAAAGCGGTGGCTTTGTG 673

Search completed: September 11, 2003, 03:13:59
Job time : 379 secs

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DB 674 ACTGAAGACGAATACTTGAATATTCAGGGCATCATCCCGGGAGCAGTCAGGGAGTACGAG 733
QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgArgValLysValThrValAsn 220
DB 734 TGCAGTCCCTCCCAATGACCTGGCCGCGCGTGGTACGGAGAGTAAAGGTCCACGTGAAC 793
QY 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlyLysGlyThr 240
DB 794 TATCCACCATACATTTTCAGAACCAAGGTTACAGGTGTCCCGTGGGACAAAAGGGGACA 853
QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrIleAspAspLys 260
DB 854 CTGCAGTGTGAAGCCCTCAGCAGTCCCTCAGCAGATTCAGTGGGTACAGGATGACAAA 913
QY 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
DB 914 AGACTGATGAAGAAAGAGGGGTGAAGTGAAGAACAGACCTTCTCTCAAAACTC 973
QY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
DB 974 ATCTTCTTCAATGTCTCTGAACATGACTATGGGAACCTACACTTGGCTGGCTCCCAACAG 1033
QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 1034 CTGGCCACACCAATGCCAGCATCATGTATTGTGTCAGGCGCGTCCAGCGAGGTGAGC 1093
QY 321 AsnGlyThrSerArgArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340
DB 1094 AACGCGACGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 1153
QY 341 LeuLeuLysPhe 344
DB 1154 CTCTCAAAATTT 1165

GenCore version 5.1.6
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OK protein - nucleic search, using frame_plus.p2n model

Run on: September 11, 2003, 03:14:04 ; Search time 93 Seconds
(without alignments)
1632.643 Million cell updates/sec

Title: US-10-017-084A-523

Perfect score: 1806

Sequence: 1 MKTIOPKMHSISWAIFTGL.....RRAGCVMLLPLLVHLLKLF 344

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Fgapop 6.0 , Fgapext 7.0

Delop. 6.0 , Delext 7.0

Searched: 569978 seqs, 220691566 residues

Total number of hits satisfying chosen parameters: 1139956

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

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-MODEL-frame+ .p2n.model -DB=us10-017-084a-523

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-DB=us10-017-084a-523

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	923.5	51.1	977	4	US-09-135-080-1
7	908	50.3	924	2	US-08-414-657D-7
8	907	50.2	945	2	US-08-414-657D-8
9	902	49.9	912	2	US-08-414-657D-6
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11	885.5	49.0	861	2	US-08-414-657D-10
12	796.5	44.1	756	2	US-08-414-657D-17

13	795.5	44.0	756	2	US-08-414-657D-18
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20	246.5	13.6	3360	1	US-08-408-420A-5
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22	246.5	13.6	3360	3	US-08-040-741-5
23	237	13.1	219	2	US-08-414-657D-11
24	237	13.1	219	2	US-08-414-657D-12
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26	230.5	12.8	2869	1	US-08-644-271-2
27	230.5	12.8	2869	4	US-09-077-955-2
28	230	12.7	2610	1	US-08-374-834-17
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32	225.5	12.5	2580	5	PCT-US95-08493-18
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37	213.5	11.8	1718	4	US-09-778-510-5
38	213	11.8	177	2	US-08-414-657D-13
39	212	11.7	177	2	US-08-414-657D-14
40	211	11.7	1273	4	US-09-778-510-3
41	210	11.6	4078	4	US-09-016-434-1120
42	209	11.6	3402	4	US-09-998-243-118
43	205.5	11.4	1542	4	US-09-205-258-123
44	205	11.4	1820	4	US-09-778-510-1
45	203.5	11.3	5824	4	US-09-620-312D-72

ALIGNMENTS

RESULT 1
US-08-414-657D-5
; Sequence 5, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
1 APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:

DB 218 GTAGAGACAAAGAACTCGAAGTGGCTGGTGTGAACCGCTGCGCATCATCTCGCTGGA 277
QY 79 AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThr 98
DB 278 CAGCAAGTGGTCTCTGGACCTCGGTTGAGTGAAGAACGCCATCTCGGAATAC 337
QY 99 SerLeuLeuGlnAsnValAspValTrpGluGlyProTrpThrCysSerValGln 118
DB 338 AGCTCCCAAGTCCAGAGTGGATGTCTATGATGAAGATCCTACACATGCTCAGTTCAG 397
QY 119 ThrAspAsnHisProLysThrSerArgValHisLeuLeuValGlnValSerProLys 138
DB 398 ACACAGATGAGCCCAAGACCTCTCAAGTTTACTTGATGTACAAAGTTCACCAAGATC 457
QY 139 ValGluLeuSerSerAspLeuSerLeuLeuGluGlyAsnAsnLeuSerLeuThrCys 158
DB 458 TCCAAACATCTCTCGGATGTCACTGTGAATGAGGCGACCAATGTAACTGCTGTCATG 517
QY 159 AlaThrGlyArgProGluProThrValThrTrpArgHisLeuSerProLysAlaValGly 178
DB 518 GCCAATGGGCGCTGAACTGTATCCTGGAGACACCTTACACCATCTGGAAGAA 577
QY 179 PreValSerGluAspGluTrpLeuGluLeuGlnGlyLeuThrArgGluGlnSerGly 198
DB 578 TTGAAGAGAGAGAAATATCTGGAGATCTTACCATCAGGAGAACAGTCAAGTCACT 637
QY 199 TyrGluCysSerAlaSerAsnAspValAlaProValValArgValValThr 218
DB 638 TATGAGTGAAGGCTGCAAGAGTCTCTCCGCGGATGTCAAAAGTCAAGTCACT 697
QY 219 ValAsnTrpProTrpTyrLeuSerGluAlaLysGlyThrGlyValProValGlyGln 238
DB 698 GTCAATATCCACCCACCATCACAGAGTCTAAGACCAATGAAGCCACAGGAGCAA 757
QY 239 GlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTrpLys 258
DB 758 GCTTCCCTCAATGTGAAGCTCAGCGGTGCTGACCTGACCTTGTGAGTGTACCGGAT 817
QY 259 AspLysArgLeuLeuGluGlyLysGlyValLysValGluAsnArgProPheLeuSer 278
DB 818 GACACACAGG--ATAACAGTGCACAAAGCGCTGAGATTAAGACACTGAGGCGCAGTCC 874
QY 279 LysLeuLeuPhePheAsnValSerGluHisAspTrpGlyAsnTrpThrCysValAla 298
DB 875 TCCCTGACGCTGACCACTGCTACTGAGGACACTACGCAACTATACCTGTGTGCTGCC 934
QY 299 AsnLysLeuGlyHisThrAsnAlaSerLeuMetLeuPheGlyProGlyAlaValSerGlu 318
DB 935 AACAGCTCGGCGTCAACCAATGCCAGCTAGTCTCTTTCAGCCGCGGTGAGAGGA 994
QY 319 ValSerAsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuValLeu 338
DB 995 ATC--AAGGATCCATCACTGTGCGCTACCATGTGCTGTGCTGCGCTGCTTC 1051
QY 339 HisLeuLeuLeuLys 343
DB 1052 TGCTTCTCAGCAA 1066

RESULT 4
US-09-135-080-3
Sequence 3, Application US/09135080
Patent No. 6423827
GENERAL INFORMATION:
APPLICANT: Levitt, Pat R.
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Lmbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 29
CORRESPONDENCE ADDRESS:
ADDRESSEE: Dechert Price & Rhoads

STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/135,080
FILING DATE: 17-AUG-1998
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/414,657
FILING DATE: 31-MAR-1995
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102A
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-620-3214
TELEFAX: 609-620-3259
TELEX:
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 1238 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 56...1069
OTHER INFORMATION:
US-09-135-080-3
Alignment Scores:
Pred. No.: 6,2e-99 Length: 1238
Score: 926.50 Matches: 179
Percent Similarity: 73.54% Conservative: 60
Best Local Similarity: 55.08% Mismatches: 81
Query Match: 51.30% Indels: 5
DB: 4 Gaps: 4
US-10-017-084a-523 (1-344) x US-09-135-080-3 (1-1238)
QY 20 LeuAlaAlaLeuCysLeuPhe--GlnGlyValProValArgSerGlyAspAlaThrPhe 38
DB 104 CTGACACTGCTGCTCTCTCCACAGACTGCCGCTCGACGCTGAT-----TTT 157
QY 39 ProLysAlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThr 58
DB 158 ACCGAGCGACGGACACACATCACCGTGAGCGAGCGGGGACACGGCCATCTCAGGTGTG 217
QY 59 IleAspAsnArgValThrArgValAlaTrpLeuAsnArgSerThrLeuThrAlaGly 78
DB 218 GTAGAAGACAAAGAACTCGAAGTGGCTGGTGAACCGCTCTGGCATCATCTCGCTGGA 277
QY 79 AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThr 98
DB 278 CACGACAAGTGGTCTCTGGACCTCGGTTGAGTGAAGAACGCCATCTCTGGAATAC 337
QY 99 SerLeuLeuGlnGlnAsnValAspValTrpGluGlyProTrpThrCysSerValGln 118
DB 338 AGCTCCCAATCAGAGGTGGATGCTATGATGAAGATCCTACACATGCTCAGTTCAG 397
QY 119 ThrAspAsnHisProLysThrSerArgValHisLeuLeuValGlnValSerProLys 138
DB 398 ACACAGATGAGCCCAAGACCTCTCAAGTTTACTTGATGTACAAAGTTCACCAAGATC 457
QY 139 ValGluLeuSerSerAspLeuSerLeuGluGlyAsnAsnLeuSerLeuThrCys 158

458 TCCACATCTCTCGGATGTCACCTGTGAATGAGGCGAGCAATGTAACCTCGTCTGCATG 517
159 AlaThrGlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGly 178
158 GCAATGGCGCCCTGAACCTGTATCACTCGGAGACACCTTACCACTTGGAGAGAA 577
179 PheValSerGluAspGluTyrLeuGluLeuGlnGlyThrArgGluLeuSerGlyAsp 198
578 TTTGAAGGAGAGAGAAATATCTGGAGATCTAGGATCACAGGAGGACAGTCAGGCAA 637
199 TyrGluCysSerAlaSerAsnAspValAlaAlaProValValArgValIleValThr 218
638 TATGAGTCAAGGCTGCCACAGGCTCTCTCCCGGATGTCAACAGTCAAGTCACT 697
219 ValAsnTyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyClnLys 238
698 GTGAATATCTCCACCACTACAGAGTCTAGAGCAATGAAGCAAGCCACACAGGAGCAA 757
239 GlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrIleAsp 258
758 GCTTCCCTCAAAATGTAAGCCTCAGCGTGTCTGCCTGACCTTGTAGTGTACCGGAT 817
259 AspLysArgLeuLeuGluGlyLysGlyValLysValGluAsnArgProPheLeuSer 278
818 GACACAGG---ATAACACAGTCAACAGCGCTTGAAGTAAAGACAGTCAAGGCGCAGTCC 874
279 LysLeuIlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSer 298
875 TCCCTGACGGTGAACCACTCACTGAGGACACTACGGCAACTATACCTGTGTGGTGC 934
299 AsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGluValAlaValSerGlu 318
935 AACAGCTCGCGCTCAACCAATGCCAGCTAGTCTCTTTTACAGCCCGGTCGTGAGGAG 994
319 ValSerAsnGlyThrSerArgArgAlaGlyCysValThrLeuLeuProLeuValLeu 338
995 ATC---AACGGATCCATCAGTCTGGCGCTACCACTGTGGCTGTGGCAGCGTCTCTGTC 1051
339 HisLeuLeuLys 343
1052 TCCCTCTCAGCAA 1066

RESULT: 5

US-08-414-657D-1
Sequence 1, Application US/08414657D
Patent No. 5861283

GENERAL INFORMATION:

APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 1:
SEQUENCE CHARACTERISTICS:
LENGTH: 977 base pairs
TYPE: nucleic acid
STRANDEDNESS: Double
TOPOLOGY: Linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 2...976
OTHER INFORMATION:
US-08-414-657D-1
Alignment Scores:
Pred. No.: 9,62e-99 Length: 977
Score: 929.50 Matches: 177
Percent Similarity: 74.06% Conservative: 60
Best Local Similarity: 55.31% Mismatches: 78
Query Match: 51.14% Indels: 5
DB: 2 Gaps: 4
US-10-017-084A-523 (1-344) x US-08-414-657D-1 (1-977)
QY 20 LeuAlaAlaLeuCysLeuPhe---GluGlyValProValArgSerGlyAspAlaThrPhe 38
DB 29 CTGAGATGCTCTGCCCTCTTCCACAGGACTGCTGTCGAGCGGTGAT-----TTT 82
QY 39 ProLysAlaMetAspAsnValThrValArgGlnGlyClnSerAlaThrLeuArgCysThr 58
DB 83 AACGAGGACGAGCAGCAATCACTGAGCGAGGCGGACACAGCCATCTCAGTGGCTT 142
QY 59 IleAspAsnArgValThrArgValAlaThrPheAsnArgSerThrIleLeuTyrAlaGly 78
DB 143 CTAGAAGACAAGAACTCAAGGTGCTGAGCCACGCGGTGAGCTGGAGAAAGCCATCTCTGGAATAC 202
QY 79 AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyr 98
DB 203 CATGACAAGTGGTCTCTGGACCCACGCGGTGAGCTGGAGAAAGCCATCTCTGGAATAC 252
QY 99 SerIleGluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGln 118
DB 263 AGCCTCGGAATCCAGAAAGGTGATGCTATGATGAGGTTCTTACACTTGTCTCAGTTCAG 322
QY 119 ThrAspAsnHisProLysThrSerArgValHisIleValGlnValSerProLysIle 138
DB 323 ACACAGCATGAGCCCAAGACCTCCCAAGTTTACTTGTCTGTAAGTCCCAACCAAGATC 382
QY 139 ValGluIleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIle 158
DB 383 TCCATATCTCTCGGATGCTACTGTGATGAGGCGAGCAAGTGAATCTGCTGCTGATG 442
QY 159 AlaThrGlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGly 178
DB 443 GCCAATGGCGCTCTGAGCTTATCACTTGTGAGACACCTTACACCACTGGAGGAGAA 502
QY 179 PheValSerGluAspGluTyrLeuGluIleGlnGlyThrArgGluGlnSerGlyAsp 198
DB 503 TTTGAAGGAGAGAGAAATATCTGGAGATCTTGGATCTTCCAGGAGGACAGTCAAGGAAA 562
QY 199 TyrGluCysSerAlaSerAsnAspValAlaAlaProValValArgValIleValThr 218
DB 563 TATGAGTCAAGCTGCCAAGAGGTCTCTCGCGCGGATGTCAAAAGTCAAGTCACT 622
QY 219 ValAsnTyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyClnLys 238
DB 623 GTGAATATCTCTCCCACTATCAAGATCCAGAGCAATGAAGCCACACAGGAGAGCAA 682

QY 239 GlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAsp 258
 Db 683 GCTTCACTCAATGTAGCGCTGGCAGTGCCTGACCTGCTTGTAGTGGTACCGGAT 742
 QY 259 AspLysArgLeuGlnGlyLysGlyValLysValGluAsnArgProPheLeuSer 278
 Db 743 GACACTAGG--ATAATAGTGCATATGCTTGAATAGACGACGAGCGGCGGCT 799
 QY 279 LysLeuPhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSer 298
 Db 800 TCCTGACGGGTGACCACTGCTAGGAGGACACTACGCAACTACACCTGTGTGCTGCC 859
 QY 299 AsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGlu 318
 Db 860 AACAGCTGGGGTGCACCAATGCCAGCTAGTCCCTTTTCAGACCTGGGTGGTGAGAGA 919
 QY 319 ValSerAsnGlyThrSerArgAlaGlyCysValTrpLeuProLeuValLeu 338
 Db 920 ATA---AATGATCCATCATGCTGGCGGTACCACTGTGGTGGTGGCAGCATCTCTGCTC 976

RESULT 6

US-09-135-080-1
 : Sequence 1, Application US/09135080
 : Patent No. 6423827
 : GENERAL INFORMATION:
 : APPLICANT: Levitt, Pat R.
 : APPLICANT: Pimenta, Aurea
 : APPLICANT: Fischer, Itzhak
 : APPLICANT: Zhukareva, Victoria
 : TITLE OF INVENTION: Limbic System-Associated Membrane
 : TITLE OF INVENTION: Protein and DNA
 : NUMBER OF SEQUENCES: 29
 : CORRESPONDENCE ADDRESS:
 : ADDRESSEE: Dechert Price & Rhoads
 : STREET: 997 Lenox Drive, Building 3, Suite 210
 : CITY: Lawrenceville
 : STATE: GA
 : COUNTRY: USA
 : ZIP: 06543

COMPUTER READABLE FORM:
 : MEDIUM TYPE: Diskette
 : COMPUTER: IBM Compatible
 : OPERATING SYSTEM: DOS
 : SOFTWARE: FastSeq for Windows Version 2.0
 : CURRENT APPLICATION DATA:
 : FILING DATE: 17-AUG-1998
 : CLASSIFICATION: 424
 : PRIOR APPLICATION DATA:
 : APPLICATION NUMBER: 08/414,657
 : FILING DATE: 31-MAR-1995
 : ATTORNEY/AGENT INFORMATION:
 : NAME: Bloom, Allen
 : REGISTRATION NUMBER: 29,135
 : REFERENCE/DOCKET NUMBER: 317743-102A
 : TELECOMMUNICATION INFORMATION:
 : TELEPHONE: 609-620-3214
 : TELEFAX: 609-620-3259
 : TELEX:
 : INFORMATION FOR SEQ ID NO: 1:

: SEQUENCE CHARACTERISTICS:
 : LENGTH: 977 base pairs
 : TYPE: nucleic acid
 : STRANDEDNESS: double
 : TOPOLOGY: linear
 : FEATURE:
 : NAME/KEY: Coding Sequence
 : LOCATION: 2...976
 : OTHER INFORMATION:
 : US-09-135-080-1

Alignment Scores:

Pred. No.:	9,62e-99	Length:	977
Score:	923.50	Matches:	177
Percent Similarity:	74.06%	Conservative:	60
Best Local Similarity:	55.31%	Mismatches:	5
Query Match:	51.14%	Indels:	4
Db:	4	Gaps:	4
US-10-017-084a-523 (1-344) x US-09-135-080-1 (1-977)			
QY 20	LeuAlaAlaLeuCysLeuPhe---	GlnGlyValProValArgSerGlyAspAlaThrPhe	38
Db 29	CTGAGATGCTCTGCTCTTCTTCCACAGACTGCTTCTGACGCTGGAT-----TTT	82	
QY 39	ProLysAlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThr	58	
Db 83	AACCGAGCGACGGACACATCACCGTGAGCGAGGAGGACACAGCCATCTCAGGTCGCTT	142	
QY 59	IleAspAsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuTyrAlaGly	78	
Db 143	CTAGAAGACAGAACTCAAGGTGGCTGTTGAACGCTTCTGGCATCATTTTTCGTGGA	202	
QY 79	AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyr	98	
Db 203	CATGACAAAGTGGTCTCTGGACCCACCGGTTGAGTGGAGAAAGCCATTCTCTGGAATAC	262	
QY 99	SerIleGluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGln	118	
Db 263	AGCCTCCGAATCCAGAGGTGGATGCTCTATGATGAGGTTCTTACACTGCTCAGTTCAG	322	
QY 119	ThrAspAsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIle	138	
Db 323	ACRAGCATGAGCCAGACCTCCCAAGTTTCTTGTATCTAGTACAGTCCACCAAGATC	382	
QY 139	ValGluIleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIle	158	
Db 383	TCCAAATATCTCTCGGATGCTGATGAGGAGGACACCTGCTGCTGCTGCTGCTGCTG	442	
QY 159	AlaThrGlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGly	178	
Db 443	GCCATGCGCTCTCTGACCTGTATACACCTGGAGACACCTTACACCACTGGAAGGAA	502	
QY 179	PheValSerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAsp	198	
Db 503	TTTGAAGGAGAGAGAAATATCTGGAGATCTCTGGCATCACAGGAGGAGGAGGAGGAA	562	
QY 199	TyrGluCysSerAlaSerAsnAspValAlaAlaProValValArgArgValValThr	218	
Db 563	TATGAGTGCATAAGCTCCAAACGAGGTCTCTCTGGCGGATGTCAACCAAGTCAAGTCACT	622	
QY 219	ValAsnTyrProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLys	238	
Db 623	GTGAAGTATCTCTCCACTATACAGAAATCCAAAGCAATCAAGCCACCCAGGAGGAGGAA	682	
QY 239	GlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAsp	258	
Db 683	GCTTCACTCAATGTAGCGCTGGCAGTGCCTGACCTGCTGCTGCTGCTGCTGCTGCTG	742	
QY 259	AspLysArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSer	278	
Db 743	GACACTAGG--ATAATAGTGCATATGCTTGAATAGACGACGAGCGGCGGCTCT	799	
QY 279	LysLeuIlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSer	298	
Db 800	TCCTGACGGGTGACCACTGCTAGGAGGACACTACGCAACTACACCTGTGTGCTGCC	859	
QY 299	AsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGlu	318	
Db 860	AACAGCTGGGGTGCACCAATGCCAGCTAGTCCCTTTTCAGACCTGGGTGGTGAGAGA	919	
QY 319	ValSerAsnGlyThrSerArgAlaGlyCysValTrpLeuProLeuValLeu	338	
Db 920	ATA---AATGATCCATCATGCTGGCGGTACCACTGTGGTGGTGGCAGCATCTCTGCTC	976	

RESULT 7
US-08-414-657D-7
Sequence 7, Application US/08414657D
Patent No. 5861283

GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FASTSEQ for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435

PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:

INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 924 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1...924
OTHER INFORMATION:

US-08-414-657D-7
Alignment Scores:
Pred. No.: 5,8e-97 Length: 924
Score: 908.00 Matches: 170
Percent Similarity: 75.50% Conservative: 58
Best Local Similarity: 56.29% Mismatches: 70
Query Match: 50.28% Indels: 4
DB: 2 Gaps: 3

US-10-017-084A-523 (1-344) x US-08-414-657D-7 (1-924)

Qy 20 LeuAlaLeuCysLeuPhe---GlnGlyValProValArgSerGlyAspAlaThrPhe 38
Db 28 CTGAGATTGCTCTGCTTCTCCACAGGACTGCTTCCAGCGGTGGAT-----TTT 81
Qy 39 ProLysAlaMetAspValThrValArgGlnGlyGluSerAlaThrLeuArgCysThr 58
Db 82 AACCGAGCGGACACATCACCCTGAGCGGGGACACAGCCATCTCTCAGGTGCTT 141
Qy 59 IleAspAsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuTyrAlaGly 78
Db 142 CTAGAGACAGAACTCAAGGTGGCTTGGTGAACCGTTCTGGCATCATTTTTCGTGGA 201

Qy 79 AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyr 98
Db 202 CATGCAAGTGGTCTCTGAGCCAGGGTGTGAGTGTGAGAGAAAGCCATCTCTCGAATAC 261
Qy 99 SerIleGluLeuGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGln 118
Db 262 AGCTTCGGAATCCAGAGGTGGTGTCTATGATGAGGGTCTCTACACGTCTGCTAGTTCAG 321
Qy 119 ThrAspAsnHisProLysThrSerArgValHisLeuLeuValGlnValSerProLysIle 138
Db 322 ACACAGCATGAGCCCAAGACCTCCCAAGTTTACTGTACATGATCTGTAACATCCCAAGATC 381
Qy 139 ValGluLeuSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIle 158
Db 382 TCCATATCTCTCGGATGTCTCATGTGAATGAGGGGAGCAAGCTGACTCTCTGCTGCATG 441
Qy 159 AlaThrGlyArgProGlnProThrValThrTrpArgHisIleSerProLysAlaValGly 178
Db 442 GCCAATGGCGTCTCTGACCTGTATCACCTGGAGACACCTTACACCACTGGAGGAA 501
Qy 179 PheValSerGluAspGlyTyrLeuGluLeuGlnGlyThrArgGluGlnSerGlyAsp 198
Db 502 TTTGAGGAGCAAGAATATCTGGAGATCTTGGCATCACCAGGAGCAGCAGTCAAGTCACT 561
Qy 199 TyrGluCysSerAlaSerAsnAspValAlaAlaProValValArgValGlyValThr 218
Db 562 TATGAGTGCAAGCTGCCAAGAGGTCTCTCGCGGAGTGTCAACAAGTCAAGTCACT 621
Qy 219 ValAspTyrProThrIleSerGluAlaValGlyThrGlyValProValGlyGlnLys 238
Db 622 GTGACTATCTCTCCACTATCACAGATCCAGAGCAGTCAAGCAGCAGGAGCAACA 681
Qy 239 GlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAsp 258
Db 682 GCTTCACTCAATGTAGCGCTGCGAGTGTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 741
Qy 259 AspLysArgLeuLeuGluGlyLysLysValGlyValGlyValGlyValGlyValGly 278
Db 742 GACACTAGG--ATAAATAGTCCCAATGGCTTGTAGATTAAGAGCAGCGGCGGCGCTCT 798
Qy 279 LysLeuLeuPhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSer 298
Db 799 TCCCTGAGCGGTGACCAACGCTCACTGAGGAGCAGTACGCGCAACTACACCTGTGTGGCTGCC 858
Qy 299 AsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyValAlaValSerGlu 318
Db 859 AACAAAGCTGGGGTCCCAATGCCAGCTAGTCTCTTTTCAGAGACTGGGTGGGTGAGAGGA 918
Qy 319 ValSer 320
Db 919 ATAAAT 924

RESULT 8
US-08-414-657D-8
Sequence 8, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Pimenta, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESS:
ADDRESS: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette

COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:

INFORMATION FOR SEQ ID NO: 8:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 945 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1...945
 OTHER INFORMATION:

US-C8-414-657D-8

Alignment Scores:
 Pred. No.: 7.87e-97 Length: 945
 Score: 907.00 Matches: 170
 Percent Similarity: 75.50% Conservative: 58
 Best Local Similarity: 56.29% Mismatches: 70
 Query Match: 50.22% Indels: 4
 DB: 2 Gaps: 3

US-10-017-084A-523 (1-344) x US-08-414-657D-8 (1-945)

Cy 20 LeuAlaLeuCysLeuPhe---GlnGlyValProValArgSerGlyAlaThrPhe 38
 Db 49 CTGAGACTGCTCTGCTCTTCCACAGGACTGCGCCCTCGCAGGTGGAT-----TTT 102
 Qy 39 ProLysAlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThr 58
 Db 103 AACCGAGCGCACCAACATCACCCTGAGCGAGGGGACACGCCCATCTCAGGTGTG 162
 Qy 59 IleAspAsnArgValThrArgValAlaAlaTrpLeuAsnArgSerThrIleLeuTyAlaGly 78
 Db 163 GTAGAAGACAGAACTCGAAAGTGGCTGGTTGAACGCTCTGCGCATCTTCGTGA 222
 Qy 79 AsnAspLysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThr 98
 Db 223 CACGACAGTGGTCTCTGGACCTCGGGTTGAGTGGAGAAAGCCATCTCGAATAC 282
 Qy 99 SerIleGluIleGlnAsnValAspValThrAspGluCysProTyThrCysSerValGln 118
 Db 283 ACCCTCCCAATCCAGAGGTGGTGTCTATGATGAGGATCCCTACACATGCTCAGTTCAG 342
 Qy 119 ThrAspAsnHisProLysThrSerArgValHisLeuValGlnValSerProLysIle 138
 Db 343 ACACAGCATAGGCCCAAGACCTCTCAAGTTTACTTGTATTGATGACAAAGTCCACAAATC 402
 Qy 139 ValGluIleSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIle 158
 Db 403 TCCAAATCTCTCGGATGTCTACTGTGAATGAGGCGACCAATGTAACCTGCTGTCATG 462
 Qy 159 AlaThrGlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGly 178
 Db 463 GCCAATGGCGCCCTGAACCTGTATACCTGGAGACACCTTACACCATCTGGAGAGAA 522
 Qy 179 PheValSerGluAspGluTyThrLeuGluIleGlnGlyThrArgGluGlnSerGlyAsp 198

Db 523 TTGAAGAGAGAAGAATATCTGGAGATCTTAGGCATCACCAGGAACATCAGGCAA 582
 Qy 199 TyrGluCysSerAlaSerAsnAspValAlaAlaProValArgValLysValThr 218
 Db 583 TATGAGTGCAAGGCTGCCAAGAGGTCTCTCCCGCGGATGTCAACAAGTCAAGTCACT 642
 Qy 219 ValAsnTrpProTyThrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLys 238
 Db 643 GTGAACATATCCACCACCATCAGAGTCTAAGAGCAATGAAGCCACACAGGACGAA 702
 Qy 239 GlyThrLeuGlnCysGluAlaSerAlaProSerAlaGluPheGlnTrpTyLysAsp 258
 Db 703 GCTTCCCTCAATGTGAAGCTCAGCGGTGCTGACCTGACTTTGAGTGTGTCGGAT 762
 Qy 259 AspLysArgLeuIleGluGlyLysLysValLysValGluAsnArgProPheLeuSer 278
 Db 763 GACACAGG--ATAAACAGTGCACAGCGCTTGAGATTAGAGCACTGAGGCGCAGTCC 819
 Qy 279 LysLeuIlePhePheAsnValSerGluHisAspTyGlyAsnTyThrCysValAlaSer 298
 Db 820 TCCCTGACGCGTGCACCAACCTCCTAGGAGAACACTACGCACTATATACCTGTGTGCTGCC 879
 Qy 299 AsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGlu 318
 Db 880 AACAGCTCGCGCTCACCATTCCAGCTAGTCTTTTCAGACCCGCGGTGAGAGGA 939
 Qy 319 ValSer 320
 Db 940 ATCAAC 945

RESULT 9

US-08-414-657D-6
 ; Sequence 6, Application US/08414657D
 ; Patent No. 5861283
 ; GENERAL INFORMATION:
 ; APPLICANT: Levitt, Pat
 ; APPLICANT: Pimenta, Aurea
 ; APPLICANT: Fischer, Itzhak
 ; APPLICANT: Zhukareva, Victoria
 ; TITLE OF INVENTION: Limbic System-Associated Membrane
 ; TITLE OF INVENTION: Protein and DNA
 ; NUMBER OF SEQUENCES: 60
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESS: Dechert Price & Rhoads
 ; STREET: 997 Lenox Drive, Building 3, Suite 210
 ; CITY: Lawrenceville
 ; STATE: NJ
 ; COUNTRY: USA
 ; ZIP: 08543
 ; COMPUTER READABLE FORM:
 ; MEDIUM TYPE: Diskette
 ; OPERATING SYSTEM: DOS
 ; SOFTWARE: FASTSEQ for Windows Version 2.0
 ; CURRENT APPLICATION DATA:
 ; APPLICATION NUMBER: US/08/414,657D
 ; FILING DATE: 31-MAR-1995
 ; CLASSIFICATION: 435
 ; PRIOR APPLICATION DATA:
 ; APPLICATION NUMBER:
 ; FILING DATE:
 ; ATTORNEY/AGENT INFORMATION:
 ; NAME: Bloom, Allen
 ; REGISTRATION NUMBER: 29,135
 ; REFERENCE/DOCKET NUMBER: 317743-102
 ; TELECOMMUNICATION INFORMATION:
 ; TELEPHONE: 609-520-3214
 ; TELEFAX: 609-520-3259
 ; TELEX:
 ; INFORMATION FOR SEQ ID NO: 6:
 ; SEQUENCE CHARACTERISTICS:
 ; LENGTH: 912 base pairs

```

TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..912
OTHER INFORMATION:
US-08-414-657D-6

Alignment Scores:
Pred. No.: 2,87e-96 Length: 912
Score: 902.00 Matches: 171
Percent Similarity: 74.68% Conservative: 59
Best Local Similarity: 55.52% Mismatches: 74
Query Match: 49.94% Indels: 4
DB: 2 Gaps: 3

US-10-017-084A-523 (1-344) x US-08-414-657D-6 (1-912)
QY 31 ValArgSerGlyAlaThrPheProLysAlaMetAspAsnValThrValArgGlyGly 50
Db 1 GTTCGACGCTGGAT-----TTTAACCGAGGCGACGACACATCACCGTGAGCGAGG 54
QY 51 GluSerAlaThrLeuArgCysThrIleAspAsnArgValThrArgValAlaTTPLeuAsn 70
Db 55 GACACAGCCATCTCAGGTGGCTTAGAGACAGACAACTCAAGGTGGCTGGTGAAC 114
QY 71 ArgSerThrIleLeuAlaCysAspLysTrpCysLeuAspProArgValValLeu 90
Db 115 GGTCTGCATCATTTTCTGGACATGACAGTGTCTCTGGACCCACGGTTGAGCTG 174
QY 91 LeuSerAsnThrGlnThrGlnTySerIleGluIleGlnAsnValAspValTyArgPglu 110
Db 175 GAGAAAGCCATCTCTGAATACAGCTCCGATCCAGAGGTGGATGCTATGATGAG 234
QY 111 GlyProTyThrCysSerValGlnThrAspAsnHisProLysThrSerArgValHisLeu 130
Db 235 GTTCTTACACTTCTCAGTTCAGACACAGCAGTGGCCCAAGACCTCCCAAGTTTACTG 294
QY 131 IleValGlnValSerProLysIleValGluIleSerSerAspIleAsnGluGly 150
Db 295 ATCTGACAAATCCCAAGATATCCCAATATCTCTCGGATGTCTGATGATGAGGCG 354
QY 151 AsnAsnIleSerLeuThrCysIleAlaThrGlyArgProGluProThrValThrTrpArg 170
Db 355 AGCAACGTGACTCTGTCTGATGCGCAATGCGGCTCTGAACCTGTATCACCTGAGGA 414
QY 171 HistLeuSerProLysAlaValGlyPheValSerGluAspLysLeuGluIleGly 190
Db 415 CACCTTACCAACTGGAAGGAATTTGAAGGAGAGAAAGATATCTGGATCTCTGGC 474
QY 191 IleThrArgGluGlnSerGlyAspTyGluCysSerAlaSerAspAspValAlaAlaPro 210
Db 475 ATCCAGGAGGAGCAGTCAAGCAATATGAGTCAAGTCCACAGGCTCTCTCGGCG 534
QY 211 ValValArgValLysValThrValAsnTyProProTyThrIleSerGluAlaLysGly 230
Db 535 GATCTCAACAGCTCAAGTCTGTAATCTTCCCACTATCACAGATCAACAGAGC 594
QY 231 ThrGlyValProValGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaAlaProSer 250
Db 595 ANTGAAGCCACCCAGGAGCAGCAGCTCAATGAGGAGGCTCGGACAGTGCCTGCA 654
QY 251 AlaGluPheGlnTrpTyLysAspAspLysArgLeuIleGluGlyLysGlyValLys 270
Db 655 CCTGACTTGAAGTGGTACGAGTACACTAGG---ATAAATAGTGCACATGGCCTGAG 711
QY 271 ValGluAsnArgProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAspTy 290
Db 712 ATTAAGACGAGGAGGCGGAGTCTTCCCTGACGCTGACCAAGCTCACTGAGGAGCACTAC 771
QY 291 GlyAsnTyThrCysValAlaSerAsnLysLeuGlyHisThrAspAlaSerIleMetLeu 310
Db 31 ValArgSerGlyAlaThrPheProLysAlaMetAspAsnValThrValArgGlyGly 50

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Db 772 GGCACTACACCTGTGTGGTGGCCACCAACGCTGGGGTGCACCATGCCAGCTAGTCCTT 831
QY 311 PheGlyProGlyAlaValSerGluValSerAsnGlyThrSerArgArgAlaGlyCysVal 330
Db 832 TTCAGCTGTGGTGGTGGAGGAATA---AATGGATCCATCAGTCTGGCGGTACCACTG 888
QY 331 TrpLeuLeuProLeuLeuValLeu 338
Db 889 TGGCTGTGGCAGCATCTCTGCTC 912

RESULT 10
US-08-414-657D-9
; Sequence 9, Application US/08414657D
; Patent No. 5861283
; GENERAL INFORMATION:
; APPLICANT: Levitt, Pat
; APPLICANT: Pimenta, Aurea
; APPLICANT: Fischer, Itzhak
; APPLICANT: Zhukareva, Victoria
; TITLE OF INVENTION: Limbic System-Associated Membrane
; NUMBER OF SEQUENCES: 60
; CORRESPONDENCE ADDRESS:
; STREET: 997 Lenox Drive, Building 3, Suite 210
; CITY: Lawrenceville
; STATE: NJ
; COUNTRY: USA
; ZIP: 08543
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: DOS
; SOFTWARE: FASTSEQ for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/414,657D
; FILING DATE: 31-MAR-1995
; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Bloom, Allen
; REGISTRATION NUMBER: 29,135
; REFERENCE/DOCKET NUMBER: 317743-102
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 609-520-3214
; TELEFAX: 609-520-3259
; TELEX:
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 861 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: double
; TOPOLOGY: linear
; FEATURE: Coding Sequence
; NAME/KEY: Coding Sequence
; LOCATION: 1..861
; OTHER INFORMATION:
; US-08-414-657D-9

Alignment Scores:
Pred. No.: 1,73e-94 Length: 861
Score: 886.50 Matches: 164
Percent Similarity: 76.21% Conservative: 57
Best Local Similarity: 56.55% Mismatches: 66
Query Match: 49.09% Indels: 3
DB: 2 Gaps: 2

US-10-017-084A-523 (1-344) x US-08-414-657D-9 (1-861)
QY 31 ValArgSerGlyAlaThrPheProLysAlaMetAspAsnValThrValArgGlyGly 50

```

Db 1 GTTCCAGCGTGGAT-----TTTAACCGAGGACGACACATCACCGTGGAGCGAGGG 54
 Qy 51 GluSerAlaThrLeuArgCysThrIleAspAsnArgValThrArgValAlaTrpLeuAsn 70
 Db 55 GACACGCCATCTCTAGGTCGGTCTAGACAGCAAGCACTCAAGTGGCTGTGGTGAAC 114
 Qy 71 ArgSerThrIleLeuThrAlaGlyAsnAspLysTrpCysLeuAspProArgValValLeu 90
 Db 115 CTTCTGGCATCATTTTGTGGATCAAGAGTGTCTGTGACCCACCGGTTGAGCTG 174
 Qy 91 LeuSerAsnThrGlnThrGlnTyrSerIleGluIleGlnAsnValaspValTyrAspGlu 110
 Db 175 GAGAAAGCCCATCTCTGGAATACAGCTCCGAAATCCAGAGGTGGATGTATGATGAG 234
 Qy 111 GlyProTyrThrCysSerValGlnThrAspAsnHisProLysThrSerArgValHisLeu 130
 Db 235 GGTCTCTACACTTGTCTAGTTCAGTTCAGACACAGCATGAGCCCAAGACCTCCCAAGTTACTTG 294
 Qy 131 IleValGlnValSerProLysIleValGluIleSerSerAspIleSerIleAsnGluGly 150
 Db 295 ATCTGTACAAAGTCCCAACAAAGATCTCCAAATATCTCTCGGATGTCTCACTGTGAATGAGGCG 354
 Qy 151 AsnAsnIleSerLeuThrCysIleAlaThrGlyArgProGluProThrValThrTrpArg 170
 Db 355 AGCAACGTGACTGTCTGTGATGCGCAATGGCGTCTGTGAACCTGTATCACCTGGAGA 414
 Qy 171 HisIleSerProLysAlaValGlyPheValSerGluAspGluTyrLeuGluIleGlnGly 190
 Db 415 CACCTTACACCACTGGAGGGAATTTGACGACAGCAAGATATCTGGATCTTGGC 474
 Qy 191 IleThrArgGluGlnSerGlyAspTyrGluCysSerAlaSerAsnAspValAlaAlaPro 210
 Db 475 ATCACCAGGAGCAGTCCAGCAATATGTGTGCAAGTGTCTGCGGCG 534
 Qy 211 ValValArgValGlyValThrValAsnTyrProPyrIleSerGluAlaLysGly 230
 Db 535 GATGTCAACCAAGTCAAGTCACTGTGACATCTCTCCACTATCAAGATCCCAAGC 594
 Qy 231 ThrGlyValProValGlyGlnLysGlyThrLeuGlnCysGlnAlaSerAlaValProSer 250
 Db 595 AATGAAGCCACCCAGCAGCAGCAAGCTTCACTCAATGTAGGCGCTCGCGAGTCCGTGCA 654
 Qy 251 AlaGluPheGlnTrpTyrLysAspLysArgLeuIleGluLysLysGlyValLys 270
 Db 655 CTTGACTTGTAGTGTACCGGATGACACTAGG---ATAAATAGTCCCAATGGCCTTGAG 711
 Qy 271 ValGluAsnArgProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAspTyr 290
 Db 712 ATTAAGACGAGGAGGCGGCTCTTCCCTGACGCTGACCAACCTCACTGAGGAGCACTAC 771
 Qy 291 GlyAsnTyrThrCysValAlaSerAsnLysLeuGlyHisThrAsnAlaSerIleMetLeu 310
 Db 772 GGCACACTACACTGTGTGGTCCCAACAAAGCTGGGGGTACCAATGCCAGCTAGTCTCT 831
 Qy 311 PheGlyProGlyAlaValSerGluValSer 320
 Db 832 TTCAGACCTGGGTGGTGGAGAGCAATAAAT 861

RESULT 11
 ; Sequence 10, Application US/08414657D
 ; Patent No. 5861283
 ; GENERAL INFORMATION:
 ; APPLICANT: Levitt, Pat
 ; APPLICANT: Pimenta, Aurea
 ; APPLICANT: Fischer, Itzhak
 ; APPLICANT: Zhukareva, Victoria
 ; TITLE OF INVENTION: Limbic System-Associated Membrane
 ; NUMBER OF SEQUENCES: 60
 ; CORRESPONDENCE ADDRESS:
 ; ADDRESSEE: Dechert Price & Rhoads
 ; STREET: 997 Lenox Drive, Building 3, Suite 210

CITY: Lawrenceville
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-MAR-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 317743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 10:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 861 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1...861
 OTHER INFORMATION:
 US-08-414-657D-10
 Alignment Scores:
 Pred. No.: 2,26e-94 Length: 861
 Score: 885.50 Matches: 154
 Percent Similarity: 76.21% Conservative: 57
 Best Local Similarity: 56.55% Mismatches: 66
 Query Match: 49.03% Indels: 3
 DB: 2 Gaps: 2
 US-10-017-084A-523 (1-344) x US-08-414-657D-10 (1-861)

Qy 31 ValArgSerGlyAlaThrPheProLysAlaMetAspAsnValThrValArgGlnGly 50
 Db 1 GTTCCAGCGTGGAT-----TTTAACCGAGGACGACACATCACCGTGGAGCGAGGG 54
 Qy 51 GluSerAlaThrLeuArgCysThrIleAspAsnArgValThrArgValAlaTrpLeuAsn 70
 Db 55 GACACGCCATCTCTAGGTCGGTCTAGACAGCAAGCACTCAAGTGGCTGTGGTGAAC 114
 Qy 71 ArgSerThrIleLeuThrAlaGlyAsnAspLysTrpCysLeuAspProArgValValLeu 90
 Db 115 CTTCTGGCATCATTTTGTGGATCAAGAGTGTCTGTGACCCACCGGTTGAGCTG 174
 Qy 91 LeuSerAsnThrGlnThrGlnTyrSerIleGluIleGlnAsnValaspValTyrAspGlu 110
 Db 175 GAGAAAGCCCATCTCTGGAATACAGCTCCGAAATCCAGAGGTGGATGTATGATGAG 234
 Qy 111 GlyProTyrThrCysSerValGlnThrAspAsnHisProLysThrSerArgValHisLeu 130
 Db 235 GGTCTCTACACTTGTCTAGTTCAGTTCAGACACAGCATGAGCCCAAGACCTCCCAAGTTACTTG 294
 Qy 131 IleValGlnValSerProLysIleValGluIleSerSerAspIleSerIleAsnGluGly 150
 Db 295 ATCTGTACAAAGTCCCAACAAAGATCTCCAAATATCTCTCGGATGTCTCACTGTGAATGAGGCG 354
 Qy 151 AsnAsnIleSerLeuThrCysIleAlaThrGlyArgProGluProThrValThrTrpArg 170
 Db 355 AGCAACGTGACTGTCTGTGATGCGCAATGGCGTCTGTGAACCTGTATCACCTGGAGA 414

QY 171 HistSerProLysAlaValGlyPheValSerGluAspGluTyrLeuGluGly 190
 Db 415 CACTTACCACTTGGAGAGAAATTTGAGGAGAGAAATATCTGGAGTCTTAGGC 474
 QY 191 lletHrArgGluGlnSerGlyAspTyrGluCysSerAlaSerAsnAspAlaAlaPro 210
 Db 475 ATCCAGGAGGAGCAGCAGCAATATGAGTGAAGCTGCCAAGAGGCTCTCCGGCG 534
 QY 211 ValValArgValLysValThrValAsnTyrProTyrIleSerGluAlaLysGly 230
 Db 535 GATGTCAAAAGCTCAAGTCACTGTGAATATCCACCACCATCACAGATCTTAAGAGC 594
 QY 231 ThrGlyValProValGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaValProSer 250
 Db 595 AATGAAGCCACCACAGGAGCAGCAAGCTTCCCTCAAAATGTGAAGCTCAGCGTGCCTGCA 654
 QY 251 AlaGluPheGlnTyrLysAspLysArgLeuIleGluGlyLysGlyValLys 270
 Db 655 CCGTACTTGGTGTACCGGATGACACAGG---ATAACAGTGCACACGCGCTTGAG 711
 QY 271 ValGluAsnArgProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAspTyr 290
 Db 712 ATTAAGAGCACTGAGGCGCAGTCTCTCCGTGACGCTGACCAACGTCACGTAGGAGACACTAC 771
 QY 291 GlyAsnTyrThrCysValAlaSerAsnLysLeuGlyHisThrAsnAlaSerIleMetLeu 310
 Db 772 GGCACTATACCTGTGTGTGTCGCAACAGCTCGCGCTCACCAATGCCAGCGCTAGTCTT 831
 QY 311 PheGlyProGlyAlaValSerLysValSer 320
 Db 832 TTCAGACCGCGTGTGAGGAGATCAAC 861

RESULT 12

US-08-414-657D-17
 Sequence 17 Application US/08414657D
 Patent No. 5651283
 GENERAL INFORMATION:
 APPLICANT: Levitt, Pat
 APPLICANT: Pimenta, Aurea
 APPLICANT: Fischer, Itzhak
 APPLICANT: Zhukareva, Victoria
 TITLE OF INVENTION: Limbic System-Associated Membrane
 TITLE OF INVENTION: Protein and DNA
 NUMBER OF SEQUENCES: 60
 CORRESPONDENCE ADDRESS:
 ADDRESS: Dechert Price & Rhoads
 STREET: 997 Lenox Drive, Building 3, Suite 210
 CITY: Lawrenceville
 STATE: NJ
 COUNTRY: USA
 ZIP: 08543
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette
 COMPUTER: IBM Compatible
 OPERATING SYSTEM: DOS
 SOFTWARE: FASTSEQ for Windows Version 2.0
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/414,657D
 FILING DATE: 31-Mar-1995
 CLASSIFICATION: 435
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER:
 FILING DATE:
 ATTORNEY/AGENT INFORMATION:
 NAME: Bloom, Allen
 REGISTRATION NUMBER: 29,135
 REFERENCE/DOCKET NUMBER: 31743-102
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: 609-520-3214
 TELEFAX: 609-520-3259
 TELEX:
 INFORMATION FOR SEQ ID NO: 17:

SEQUENCE CHARACTERISTICS:
 LENGTH: 756 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: double
 TOPOLOGY: linear
 FEATURE:
 NAME/KEY: Coding Sequence
 LOCATION: 1...756
 OTHER INFORMATION:
 US-08-414-657D-17
 Alignment Scores:
 Pred. No.: 5,09e-84 Length: 756
 Score: 796.50 Matches: 144
 Percent Similarity: 76.68% Conservative: 50
 Best Local Similarity: 56.92% Mismatches: 58
 Query Match: 44.10% Indels: 1
 DB: 2 Gaps: 1
 US-10-017-084A-523 (1-344) x US-08-414-657D-17 (1-756)
 QY 50 GlyGluSerAlaThrLeuArgCysThrIleAspAsnArgValThrArgValAlaTrpLeu 69
 Db 1 GGGGACACAGCCATCTCAGGTGGTCTTAGAGACACAACTCAAGGTGGCTGGTGG 60
 QY 70 AsnArgSerThrIleLeuTyrAlaGlyAsnAspLysTyrCysLeuAspProAlaVal 89
 Db 61 AACGTTCTGGCATCATTTTTGCTGGACATGACATGATGCTCTCTGGACCCACGGTTGAG 120
 QY 90 LeuLeuSerAsnThrGlnThrGlnTyrSerIleGluIleGlnAsnValAspValTyrAsp 109
 Db 121 CTGGAGAACCCATCTCTGGAATACAGCTCCGATCCAGAGGTGGATGCTATGAT 180
 QY 110 GluGlyProTyrThrCysSerValGlnThrAspAsnHisProLysThrSerArgValHis 129
 Db 181 GAGGTTCCTACACTTGTCTGATTCAGACACACATGATATCTCTGGATGCTCAAGTTTAC 240
 QY 130 LeuIleValGlnValSerProLysIleValGluIleSerSerAspIleSerIleAsnGlu 149
 Db 241 TTGATCGTCAAGTCCCAACCAAGATATCCCAATATATCTCTGGATGCTCAAGTTGAG 300
 QY 150 GlyAsnAsnIleSerLeuThrCysIleAlaThrGlyArgProGluProThrValThrTrp 169
 Db 301 GCGAGCAACGCTGACTCTGCTGATGGCAATGGCGCTCTGGAACCTGTTATCACCTGG 360
 QY 170 ArgHisIleSerProLysAlaValGlyPheValSerGluAspGluTyrLeuGluIleGln 189
 Db 361 AGACACTTACACCAACTGGAGGGAATTTGAAGGAGAGAGAAATATCTGGAGATCCTT 420
 QY 190 GlyIleThrArgGluGlnSerGlyAspTyrGluCysSerAlaSerAsnAspValAlaAla 209
 Db 421 GGCATCACCCAGGAGCAGTCAAGCAATATGATGAGTCAAGCTGCCAGAGGTCTCTCG 480
 QY 210 ProValValArgValLysValThrValAsnTyrProTyrIleSerGluAlaLys 229
 Db 481 CGGATGTCAACAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAGTCAAG 540
 QY 230 GlyThrGlyValProValGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaValPro 249
 Db 541 AGCAATGAAGCCACACAGGAGCAGCAAGCTTCACTCAATGTGAGGCGCTCGGAGTGCCT 600
 QY 250 SerAlaGluPheGlnTyrTyrLysAspLysArgLeuIleGluGlyLysGlyVal 269
 Db 601 GCACCTGACTTTGAGTGTGATCCGGGATGACACTAGG---ATAAATAGTGGCAATGGCCCT 657
 QY 270 LysValGluAsnArgProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAsp 289
 Db 658 GAGATTAAAGAGCAGGAGGCGGCGCTCTCTCCGTGACCAACAGTCACTGAGGAGCAC 717
 QY 290 TyrGlyAsnTyrThrCysValAlaSerAsnLysLeuGly 302
 Db 718 TACGGCAACTACACCTGTGTGCTGCCACCAACAGCTGGGG 756

RESULT 13
US-08-414-657D-18
Sequence 18, Application US/08414657D
Patent No. 5861283
GENERAL INFORMATION:
APPLICANT: Levitt, Pat
APPLICANT: Piment, Aurea
APPLICANT: Fischer, Itzhak
APPLICANT: Zhukareva, Victoria
TITLE OF INVENTION: Limbic System-Associated Membrane
TITLE OF INVENTION: Protein and DNA
NUMBER OF SEQUENCES: 60
CORRESPONDENCE ADDRESSES:
ADDRESSEE: Dechert Price & Rhoads
STREET: 997 Lenox Drive, Building 3, Suite 210
CITY: Lawrenceville
STATE: NJ
COUNTRY: USA
ZIP: 08543
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/414,657D
FILING DATE: 31-MAR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Bloom, Allen
REGISTRATION NUMBER: 29,135
REFERENCE/DOCKET NUMBER: 317743-102
TELECOMMUNICATION INFORMATION:
TELEPHONE: 609-520-3214
TELEFAX: 609-520-3259
TELEX:
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 756 base pairs
TYPE: nucleic acid
STRANDEDNESS: double
TOPOLOGY: linear
FEATURE:
NAME/KEY: Coding Sequence
LOCATION: 1..756
OTHER INFORMATION:
US-08-414-657D-18
Alignment Scores:
Pred. No.: 756
Score: 795.50
Percent Similarity: 76.68%
Best Local Similarity: 56.92%
Query Match: 44.05%
Indels: 1
Gaps: 2
DB:
US-10-017-084A-523 (1-344) x US-08-414-657D-18 (1-756)
QY 50 GlycylserineLeuValGlnThrIleAspAsnArgValThrArgValAlaIlePleu 69
Db 1 GGGACACGCGGCTCCCTGCTGGTGAAGACAAAGACTCGAAAGTGGCTGGTG 60
QY 70 AsnArgSerThrIleLeuValAlaGlyAsnAspLysTyrCysLeuAspProArgValVal 89
Db 61 AACCGGCTCGGCATCATCTCTCGTGGACACGAAAGTGTCTTGGACCCCTCGGGTGA 120
QY 90 LeuSerAsnThrGlnThrGlnThrIleGlnThrIleGlnThrIleGlnThrIleGlnThr 109
Db 121 CTGAGAACGACCATGCTCTGGAATACAGCCCTCGAATATCCAGAGAGTGGATGCTATGAT 180

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US-10-017-084A-523 (1-344) x US-09-484-970B-66 (1-6814)
QY 8 MethHisnSerIleSerTrpAlaIlePheThrClyLeuAlaIleLeuCysLeuPheGln 27
DB 1006 ATGCAAGACAGCTGGCGAGAGTGAAGCAGAGGTGACCTCAGTACTTC---1062
QY 28 GlyValProValArgSerGlyAspAlaThrPheProLysAlaMetAspValThrVal 47
DB 1063 GGGCTCCAGCTCGA-----CCACACTTTGTATCCACGCCACAGAAATACAGAGGTG 1113
QY 48 ArgGlnGlySerAlaThrLeuArgCysThrIleAspAsnArg---ValThrArgVal 66
DB 1114 CTGTTGGGAGAGCGTCCAGCTGGAGTGCAGCGCCACAGCCGCCCGCGCGATC 1173
QY 67 AlaTrpLeuAsnArgSerThrIleLeuTyraGlyAsnAspLysTrpCysLeu-----84
DB 1174 TCCTGGAGGAGA-----GGTGACGCGACACACCTTCCAGTT 1209
QY 85 AspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrrSerIleGluIleGlnAsn 104
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DB 1258 GTCTACAGGGGACAGCGAGAGTATCGGTCTTCGCGACCAACATGTGACAGCGTC 1317
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QY 249 ProSerAlaGluPheGlnTrpTyrrLysAspLysArgIleIleGlu---GlyLysLys 267
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QY 308 IleMetLeu 310
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RESULT 15
US-08-659-984A-2
Sequence 2, Application US/08659984A
Patent No. 5942400
GENERAL INFORMATION:
APPLICANT: Anderson, John P.
APPLICANT: Sinha, Sukanto
APPLICANT: Jacobson-Croak, Kirsten L.
TITLE OF INVENTION: Assays for Detecting Beta-Secretase
TITLE OF INVENTION: Inhibition
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend and Crew LLP
STREET: Two Embarcadero Ctr., 8th Floor
CITY: San Francisco
STATE: California
COUNTRY: USA
ZIP: 94111-3834
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
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APPLICATION NUMBER: US/08/659,984A
FILING DATE: 07-JUN-1996
CLASSIFICATION: 436
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/485,152
FILING DATE: 07-JUN-1995
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 15270-002810US
TELECOMMUNICATION INFORMATION:
TELEPHONE: 415-326-2400
TELEFAX: 415-326-2422
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 1266 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
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US-08-659-984A-2
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573.197 Million cell updates/sec

Title: US-10-017-084A-523

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Ygapop 10.0, Ygapext 0.5
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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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6	1806	100.0	1679	11	US-09-978-608A-522 Sequence 522, App
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ALIGNMENTS

RESULT 1
US-09-978-295A-522
Sequence 522, Application US/09978295A
Patent No. US20020156006A1
GENERAL INFORMATION:
APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Flivaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Oliang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Kljavin, Ivar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James;

APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
TITLE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C11
CURRENT APPLICATION NUMBER: US/09/978,295A
CURRENT FILING DATE: 2001-10-15
PRIOR APPLICATION NUMBER: 09/918585
PRIOR FILING DATE: 2001-07-30
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US-10-017-084A-523 (1-344) x US-09-978-295A-522 (1-1679)

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 ; Sequence 522, Application US/09978697
 ; Patent No. US20020169284A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
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 ; APPLICANT: Tumas, Daniel
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 ; APPLICANT: Wood, William I.

;; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
;; FILE REFERENCE: P2630P1C27
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 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085704
 ; PRIOR FILING DATE: 1998-05-15
 ; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.: 9,94e-216 Length: 1679
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 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 10 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-978-697-522 (1-1679)

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RESULT 3

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 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
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 ; APPLICANT: Gerritsen, Mary E.
 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
 ; APPLICANT: Grimaldi, J. Christopher
 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hillan, Kenneth J.
 ; APPLICANT: Kljavin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James
 ; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; TITLE OF INVENTION: Acids Encoding the Same
 ; FILE REFERENCE: P2630PIC9
 ; CURRENT APPLICATION NUMBER: US/09/978,192A
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30

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Alignment Scores:
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Percent Similarity: 100.00% Conservatives: 0
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US-10-017-084A-523 (1-344) x US-09-978-192A-522 (1-1679)

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; APPLICANT: Tumas, Daniel
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; APPLICANT: Wood William I.
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 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 10 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-999-832A-522 (1-1679)

Qy 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
 Db 134 ATGAARACCATCCAGCCCAAAATGCACATTTCTTGGGCAATCTTACGGGGCTG 193
 Qy 21 AlaAlaLeuLysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 Db 194 GCTGCTCTGTGCTCTTCCAAAGAGTCCCGTGGCGAGGAGATGCCACTTCCCAAA 253
 Qy 41 AlametaspasvalthrvalargglnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 Db 254 GCTATGGACAGTGCAGGTCGCGGAGGGGAGAGCGCCACCTCAGGTGCATATTGAC 313
 Qy 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuValAlaGlyAsnAsp 80
 Db 314 AACCGGGTCACCGGGTGGCTGGCTAAACCGCAGCACCATCTCTATGTGGGAATGAC 373
 Qy 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTrpSerIle 100
 Db 374 AGTGGTGGCTGGATCTCGCGTGGTCTCTGAGCAACACCCAGCAGTACAGCATC 433
 Qy 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
 Db 434 GACATCCAGAGTGGATGTGTATGACAGGCGCTTACACCTCGCTGGTGACAGAC 493
 Qy 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
 Db 494 AACCAACCAAGACCTTAGGGTCCACCTATGTGCAAGTATCTCCCAAAATGTAGAG 553
 Qy 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 Db 554 ATTCTTCAGATATCTCCATTAATGAAGGGAACATATTAGCTCAGCTGCATAGCACT 613
 Qy 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 Db 614 GTPAGACAGAGCCTTAGGGTACTTGGAGACACATCTCCCAAAAGCGTGGCTTTGTG 673
 Qy 181 SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGlnGlnSerGlyAspTyrGlu 200
 Db 674 AGTGAAGCAATACTTGGAAATTCAGGGCATCACCGGGAGCAGTACGGGACTACGAG 733
 Qy 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn 220
 Db 734 TGCAGTGCCTCCATGACGTGGCGGCGCGCTGGTGGAGAGATGAAGTCCACCTGAC 793
 Qy 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
 Db 794 TATCCACCATATTTTCAAGCAAGGAGTACAGGTGTCCCGGAGGCAAAAGGGGACA 853
 Qy 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAspAspLys 260
 Db 854 CTGAGTGTGAAGCCTCAGCAGTCCCTCCCTCAGCAGAAATTCAGGTGATGAAGATGACAAA 913

Qy 261 ArgLeuIleGluGlyLysLysGlyValLysValGluAsnArgPropheLeuSerLysLeu 280
 Db 914 AGACTGATTGAAGGAAGAGGGTGAAGTGGAAACACAGACCTTTCTCTCAAAACTC 973
 Qy 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaIleSerAsnLys 300
 Db 974 ATCTTCTCAATGTCTCTGAACATGACTTGGGAACACTACTTGGTGGCTCCCAACAG 1033
 Qy 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
 Db 1034 CTGGGCCACACCAATGCCAGCATCATCTATTGGTCCAGGCGCGTCAGGAGGTGAC 1093
 Qy 321 AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340
 Db 1094 AACGGCACGTCGAGGAGGCGAGGCTGGCTGCTGCTCTTCTGCTTTGGACCTG 1153
 Qy 341 LeuLeuLysPhe 344
 Db 1154 CTCTCAATTT 1165

RESULT 5

US-09-978-189-522
 Sequence 522, Application US/09978189
 Publication No. US20030004102A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
 APPLICANT: Baker Kevin P.
 APPLICANT: Botstein, David
 APPLICANT: Desnoyers, Luc
 APPLICANT: Eaton, Dan
 APPLICANT: Ferrara, Napoleon
 APPLICANT: Filvaroff, Ellen
 APPLICANT: Fong, Sherman
 APPLICANT: Gao, Wei-Qiang
 APPLICANT: Gerber, Hanspeter
 APPLICANT: Gerritsen, Mary E.
 APPLICANT: Goddard, Audrey
 APPLICANT: Godowski, Paul J.
 APPLICANT: Grimaldi, J. Christopher
 APPLICANT: Gurney, Austin L.
 APPLICANT: Hillan, Kenneth J.
 APPLICANT: Kljavin, Ivar J.
 APPLICANT: Kuo, Sophia S.
 APPLICANT: Napier, Mary A.
 APPLICANT: Pan, James
 APPLICANT: Paoni, Nicholas F.
 APPLICANT: Roy, Margaret Ann
 APPLICANT: Shelton, David L.
 APPLICANT: Stewart, Timothy A.
 APPLICANT: Tumas, Daniel
 APPLICANT: Williams, P. Mickey
 APPLICANT: Wood, William I.
 TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 FILE REFERENCE: P2630P1C7
 CURRENT APPLICATION NUMBER: US/09/978,189
 CURRENT FILING DATE: 2001-10-15
 PRIOR APPLICATION NUMBER: 09/918585
 PRIOR FILING DATE: 2001-07-30
 PRIOR APPLICATION NUMBER: 60/062250
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/064249
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 PRIOR APPLICATION NUMBER: 60/065311
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 PRIOR APPLICATION NUMBER: 60/066364
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/077450
 PRIOR FILING DATE: 1998-03-10
 PRIOR APPLICATION NUMBER: 60/077632
 PRIOR FILING DATE: 1998-03-11
 PRIOR APPLICATION NUMBER: 60/077641
 PRIOR FILING DATE: 1998-03-11

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20	PRIOR FILING DATE: 1998-03-27	
21	PRIOR APPLICATION NUMBER: 60/079689	
22	PRIOR FILING DATE: 1998-03-27	
23	PRIOR APPLICATION NUMBER: 60/079663.	
24	PRIOR FILING DATE: 1998-03-27	
25	PRIOR APPLICATION NUMBER: 60/079728	
26	PRIOR FILING DATE: 1998-03-27	
27	PRIOR APPLICATION NUMBER: 60/079786	
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65	PRIOR APPLICATION NUMBER: 60/081819	
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7	PRIOR FILING DATE: 1998-04-22
8	PRIOR APPLICATION NUMBER: 60/082797
9	PRIOR FILING DATE: 1998-04-22
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11	PRIOR FILING DATE: 1998-04-23
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18	PRIOR APPLICATION NUMBER: 60/083495
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22	PRIOR APPLICATION NUMBER: 60/083499
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40	PRIOR APPLICATION NUMBER: 60/084441
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62	PRIOR APPLICATION NUMBER: 60/085592
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64	PRIOR APPLICATION NUMBER: 60/085700
65	PRIOR FILING DATE: 1998-05-15
66	PRIOR APPLICATION NUMBER: 60/085689
67	PRIOR FILING DATE: 1998-05-15
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70	PRIOR APPLICATION NUMBER: 60/085580
71	PRIOR FILING DATE: 1998-05-15
72	PRIOR APPLICATION NUMBER: 60/085573
73	PRIOR FILING DATE: 1998-05-15

;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.: 9,94e-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-978-189-522 (1-1679)

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DB 134 ATGAAACCATCCAGCCAAATGACAAATTCATCTCTGGGCATCTTCACGGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTCTGTCTCTCCAGAGGTGCCGCGAGGATGCCACCTCCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGACACGGTGGCGGCGAGGGGAGAGCCACCTCAGGTGCCTACTATTGAC 313
QY 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuTyralaGlyAsnAsp 80
DB 314 AACCGGGTACCGGGGTGGCTGGCTGAAACCGCAGCACCATCTCTATGCTGGGAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrrSerIle 100
DB 374 AAGTGTGCTGGATCTCTCGCGTGGTCTCTGAGCAACACCCAAACGAGTACAGCATC 433
QY 101 GluIleGlnAsnValAspValTyArgGlyProTyrrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGACGGTGGATGTATGACGAGGGCCCTTACACCTGCTCGTGGCAGACAGC 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB 494 AACCAACCAAGACCTCTAGGGTCCACCTCATTGTGCAAGTATCTCCCAAAATTTGACG 553
QY 141 IleSerSerAspIleSerIleAsnGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTTCTCAGATCTCCATATGAGGGAGCAATATTAGCTTCACCTGCATGCACT 613
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGACAGACGCTACGGTACTTGGAGACACATCTCCCAAGCGGTGGCTTTGTG 673
QY 181 SerGluAspGluTyrrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrrGlu 200
DB 674 AGTGAAGACGAATCTTGAAATTCAGGCATCACCGGGAGCAGTCCAGGGACTACGAG 733
QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn 220
DB 734 TGCACTGCTCCTCAATGACGTGCGCGCCGCGTGTGAGAGAGTAAAGTCACTGAGAC 793
QY 221 TyrProProTyrrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
DB 794 TATCCACCATACATTTCCAGAACCCAGGTACAGGTGTCCTCCGGGCAAAAGGGGACA 853
QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrrLysAspLys 260
DB 854 CTGCAGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAGGATGACAAA 913
QY 261 ArgLeuIleGluGlyLysLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
DB 914 ACACCTGATTGAAGAAAGAAAGGGGTGAAAGTGGAAACACAGACCTTCTCTCAAAATC 973
QY 281 IlePhePheAsnValSerGluHisAspTyrrGlyAsnTyrrCysValAlaSerAsnLys 300
DB 974 ATCTTCTTCAATGTCTGAACTGACTATGGAACTACACTTGCCTGCTGCCCTCCAAACAG 1033
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QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 1034 CTGGGCCACACCAATGCCAGCATCATGTCTATTGGTCCAGCGCCGCTCAGCGAGGTGAGC 1093
QY 321 AsnGlyThrSerArgArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340
DB 1094 AACGGCAGCTCGAGGAGGCGAGCTGCGTCTGGCTGTCTTCTGTCTTGCACCTG 1153
QY 341 LeuLeuLysPhe 344
DB 1154 CTTCCTCAAAATTT 1165
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RESULT 6

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US-09-978-608A-522
; Sequence 522, Application US/09978608A
; Publication No. US20030045462A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Fillaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurhey, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavini, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C22
; CURRENT APPLICATION NUMBER: US/09/978,608A
; CURRENT FILING DATE: 2001-10-16
; NUMBER OF SEQ ID NOS: 624
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 522
; LENGTH: 1679
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-978-608A-522
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Alignment Scores:
Pred. No.: 9,94e-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-978-608A-522 (1-1679)

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QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB 134 ATGAAACCATCCAGCCAAATGACAAATTCATCTCTGGGCATCTTCACGGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
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DB 194 GCTGCTGTGTCTCTTCCAAAGGAGTGCCTGCGCAGCGAGATGCCACCTTCCCAAA 253
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DB 254 GCTATGACACAGTGCAGGTCGCGCAGGAGGAGCGCCACCTCAGTGCACATTTGAC 313
QY 61 AsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
DB 314 AACGGGTGCACCGGGTGCCTGCTAAACCGCAGCACCCTCTATGCTGGGAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnThrSerIle 100
DB 374 AAGTGGTGCCTGGATCCTCGCTGCTCTCTGAGCAACACCCAAACGAGTACAGATC 433
QY 101 GluIleGlnAsnValAspValTyrAspGlnGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGACGTCGATGATGACGAGGCGCTTACCTGCTGCTGCTGCTGCTGCTGCT 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB 494 AACCCCAACAGCTCTAGGTCCTCCTTGTGCAAGTATCTCCCAAAATGTAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGlnGlyAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTCTTCAGATATCTCCATTAATGAAGGAAACAATATTAGCTCCTCAGCTCATAGCACT 613
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGACAGAGCTACGCTTACTTGTGAGACACATCTCTCCCAAGCGGTGGCTTTGTG 673
QY 181 SerGluAspGluTyrLeuGluIleGlnGlyLeuThrArgGlnGlnSerGlyAspTyrGlu 200
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DB 734 TGCAAGTGCCTCCAAATGACGTGCGCGCGCGCTGTGACGAGAGTAAGGTCCACCGTGAAC 793
QY 221 TyrProProTyrIleSerGluAlaGlyGlyThrGlyValProValGlnGlyGlyThr 240
DB 794 TATCCACCATATCATTTCAAGACCCAGGAGTACAGGTGCTCCCGTGGACAAAGAGCA 853
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RESULT 7

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US-09-978-585A-522
; Sequence 522, Application US/09978585A
; Publication No. US20030049633A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
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APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Fillaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillen, Kenneth J.
APPLICANT: Kijavich, Iwar J.
APPLICANT: Kuo, Sophia S.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE OF INVENTION: Acids Encoding the Same
FILE REFERENCE: P2630P1C15
CURRENT APPLICATION NUMBER: US/09/978,585A
CURRENT FILING DATE: 2001-10-16
NUMBER OF SEQ ID NOS: 624
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 522
LENGTH: 1679
TYPE: DNA
ORGANISM: Homo sapiens
US-09-978-585A-522
Alignment Scores:
Pred. No.: 9,948-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0
US-10-017-084A-523 (1-344) x US-09-978-585A-522 (1-1679)
QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB 134 ATGAAACCAATCCAGCCAAAATGCACAATTTCTCTCTGGGCAATCTTCACGGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTCTGTCTCTTCCAAAGGAGTGCCTGCGCAGCGGAGATGCCACCTTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGACACAGTGCAGGTCGCGCAGGAGGAGCGCCACCTCAGTGCACATTTGAC 313
QY 61 AsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
DB 314 AACGGGTGCACCGGGTGCCTGCTTAAACCGCAGCACCCTCTATGCTGGGAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnThrSerIle 100
DB 374 AAGTGGTGCCTGGATCCTCGCTGCTCTCTGAGCAACACCCAAACGAGTACAGATC 433
QY 101 GluIleGlnAsnValAspValTyrAspGlnGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGACGTCGATGATGACGAGGCGCTTACCTGCTGCTGCTGCTGCTGCTGCTGCT 493
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OY 121 AsnHisProLysThrSerArgValHisLeuLeuValGlnValSerProLysIleValGlu 140
 DB 494 ACCACCAAGACCTTAGGTCCACCTCATTTGTCAGATATCTCCCAAAATTTGATAG 553
 OY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 DB 554 ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCTTCACCTGATAGCACT 613
 OY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 DB 614 GGTAGACAGACGCTACGGTTACTTTGGAGACACATCTCTCCCAAGCGGTTGGCTTTGG 673
 OY 181 SerGluAspLysThrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspThrGlu 200
 DB 674 AGTGAAGACGAATACTTTGAAATTCAGGGCATCACCCGGGAGCAGTCAGGGACTACGAG 733
 OY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValValLysValThrValAsn 220
 DB 734 TGCAGTGCCTCCCAATGACGTGGCGCCGCTGGTACGGAGAGTAAGGTCCACCGTGAC 793
 OY 221 TyrProProThrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
 DB 794 TATCCACCATACATTCAGAGCCAGGGTACAGGTCTCCCGTGGGACAAAGGGGACA 853
 OY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAspAspLys 260
 DB 854 CTGAGTGTGAGCCCTCAGCAGTCCCTCCAGCAGAAATCCAGTGTGATACAGGATGACAA 913
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 DB 914 AGACTGATTGAAGGAAAGAAAGGGGTGAAAGTGGAAACAGACCTTCTCTCAAAATC 973
 OY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
 DB 974 ATCTCTCTCAATGCTCTGCAACATGACTATGGGAACATACACTTGGCTGCTCCACAAAG 1033
 OY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyValAlaValSerGluValSer 320
 DB 1034 CTGGGCCACACCAATGCCAGCATCATCTATTGGTCCAGGGCGGCTCAGGAGGTGAGC 1093
 OY 321 AsnGlyThrSerArgAlaGlyCysValTrpLeuLeuProLeuLeuValLeuHisLeu 340
 DB 1094 AAGGCACGTCGAGGAGGCGAGGCTGGCTGCTGGCTGCTCTCTGCTCTCTGCTGCTG 1153
 OY 341 LeuLeuLysPhe 344
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RESULT 8

US-09-978-191A-522
 ; Sequence 522, Application US/09978191A
 ; Publication No. US20030050239A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Ashkenazi, Avi
 ; APPLICANT: Baker Kevin P.
 ; APPLICANT: Botstein, David
 ; APPLICANT: Desnoyers, Luc
 ; APPLICANT: Eaton, Dan
 ; APPLICANT: Ferrara, Napoleon
 ; APPLICANT: Filvaroff, Ellen
 ; APPLICANT: Fong, Sherman
 ; APPLICANT: Gao, Wei-Qiang
 ; APPLICANT: Gerber, Hanspeter
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 ; APPLICANT: Goddard, Audrey
 ; APPLICANT: Godowski, Paul J.
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 ; APPLICANT: Gurney, Austin L.
 ; APPLICANT: Hellen, Kenneth J.
 ; APPLICANT: K. Javin, Ivar J.
 ; APPLICANT: Kuo, Sophia S.
 ; APPLICANT: Napier, Mary A.
 ; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.
 ; APPLICANT: Roy, Margaret Ann
 ; APPLICANT: Shelton, David L.
 ; APPLICANT: Stewart, Timothy A.
 ; APPLICANT: Tumas, Daniel
 ; APPLICANT: Williams, P. Mickey
 ; APPLICANT: Wood, William I.
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
 ; FILE REFERENCE: P2630P1C4
 ; CURRENT APPLICATION NUMBER: US/09/978,191A
 ; CURRENT FILING DATE: 2001-10-15
 ; PRIOR APPLICATION NUMBER: 09/918585
 ; PRIOR FILING DATE: 2001-07-30
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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085704
;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.:	9,94e-216	Length:	1679
Score:	1806.00	Matches:	344
Percent Similarity:	100.00%	Conservative:	0
Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	11	Gaps:	0

US-10-017-084A-523 (1-344) x US-09-978-191A-522 (1-1679)

QY	1	MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu	20
DB	134	ATGAACCATCCACCCAAATGCAATCTCTTGGCCAACTTCACGGGCGTG	193
QY	21	AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys	40
DB	194	GCTGCTGTGTCTCTTCCAAGGAGTCCCGTCGGCAGCGGAGATGCCACCTTCCCCAA	253
QY	41	AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp	60
DB	254	GCTATGGACAACGTGACGTCCTCCGACGGGGAGAGCGCCACCTCAGTGCTACATATGAC	313
QY	61	AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp	80
DB	314	AACCGGTCAACCGGGTGGCTGCTAAACCCGACGACCATCTCTATGCTGGGAATGAC	373
QY	81	LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle	100
DB	374	AACTGGTGGCTGGATCTCTCGGTGCTCTTCTGAGCAACCCAAACGACGACGACATC	433
QY	101	GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp	120
DB	434	GAGATCCAGAACGTGTGTATGACAGGGGCCCTTACACCTGCTGCTGGTGCAGACGAC	493
QY	121	AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu	140
DB	494	AACACCCAAAGACCTCTAGGGTCCACCTCATTTGTCAAGATATCTCCCAAAATGTAGAG	553
QY	141	IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr	160
DB	554	ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCTCACCCTCATAGCAACT	613

QY	161	GlyArgProGluProThrValThrTyrArgHisIleSerProLysAlaValAlaGlyPheVal	180
DB	614	GGTAGACAGAGCGCTACGGTTACTTGGAGACACATCTCCCAAAGCGGTGGCTTTGG	673
QY	181	SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu	200
DB	674	AGTGAAGACGAATACTTGGAAANTTCAGGGCATCACCGGGAGCAGTCAGGGACTACGAG	733
QY	201	CysSerAlaSerAsnAspValAlaAlaProValValArgValGlyValThrValAsn	220
DB	734	TGCAGTGCCTCCAAATGACGTGGCGCGCGCGGTGGTACGGAGAGTAAGAGTCCACCGTGAAAC	793
QY	221	TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr	240
DB	794	TATCCACCATATTTTCAGAAGCCAAAGGTACAGGTGTCCCGGTGGACAAAGGGGACA	853
QY	241	LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrTyrLysAspLys	260
DB	854	CTGCAGTGTGAAGCCTCAGCAGTCCCTCAGCAGAAATTCACAGTGGTCAAGAGTACACAA	913
QY	261	ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu	280
DB	914	AGACTGATTTGAAGGAAGAAAGGGGTGAAAGTGGAAACACAGACCTTTCTCTCAAAACTC	973
QY	281	IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys	300
DB	974	ATCTTCTTCAATGCTCTGACACATGACTATGGGAATACACTTCGCGGCCCTCCACACAG	1033
QY	301	LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer	320
DB	1034	CTGGGGCACCAAAATGCCAGCATCAATGCTATTGTCTCAGGCGCCGTACAGCAGGTGAGC	1093
QY	321	AsnGlyThrSerArgArgAlaGlyCysValTyrLeuLeuProLeuLeuValLeuHisLeu	340
DB	1094	AACGGGACGCTCGAGGAGGGCAGGCTCGCTGGCTGCCTCTTCTGTGTCTTGACCTG	1153
QY	341	LeuLeuLysPhe	344
DB	1154	CTTCTCAAAATTT	1165

RESULT 9

US-09-978-403A-522

Sequence 522, Application 05/09978403A
Publication No. US20030050240A1

GENERAL INFORMATION:

APPLICANT: Ashkenazi, Avi
APPLICANT: Baker Kevin P.
APPLICANT: Botstein, David.
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan
APPLICANT: Ferrara, Napoleon
APPLICANT: Filvaroff, Ellen
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, J. Christopher
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J
APPLICANT: Kijavlin, Ivar J.
APPLICANT: Kuo, Sophia A.
APPLICANT: Napier, Mary A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Shelton, David L.
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.

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Alignment Scores:
Pred. No.: 9,94e-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-978-403A-522 (1-1679)
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DB 194 GCTGCTCTGTCTCTTCCAAAGGAGTGCCTGCGCAGCGGAGATGCCACTTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGACAACTGTCAGCGTCCGCGAGGGGAGCGCCACCTCAGGTGCACTATTGAC 313
QY 61 AsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
DB 314 ACCGGGTCAACCGGGTGGCTGCTTAAACCGGAGCACCATCTCTATGCTGGGAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
DB 374 AAGTGTGCTGGATCCTCGCGTGGTCTCTTGAGCAACACCAACGCAAGTACAGCATC 433
QY 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGAAGCTGGATGTATGACGAGGGCCCTTACACTGCTCGGTGCAGACAGAC 493
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QY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaLaserAsnLys 300
DB 974 ATCTTCTCAATGTCCTGACATGACTATGGGAACACTACTTGGTGGCTCCCAACAG 1033
QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 1034 CTGGGCACACCAATGCGCAGCATCATCTATTGTTGTCAGCGCGCTCAGCGAGGTGAGC 1093
QY 321 AsnGlyThrSerArgArgAlaGlyCysValTyrLeuLeuProLeuValLeuHisLeu 340
DB 1094 AACGGCACGTGAGGAGGCGAGCGTGGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
QY 341 LeuLeuLysPhe 344
DB 1154 CTCTCAAAATTT 1165
RESULT 10
US-09-978-564A-522
; Sequence 522, Application US/09978564A
; Publication No. US20030050241A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
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; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630P1C35
; CURRENT APPLICATION NUMBER: US/09/978,564A
; CURRENT FILING DATE: 2001-10-16
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; PRIOR FILING DATE: 2001-07-30
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; PRIOR APPLICATION NUMBER: 60/085704
; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:
Pred. No.: 9,94e-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-978-564A-522 (1-1679)
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QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
Db 194 GCTGCTCTGTCTCTCCAAAGAGTCCCGTCGCGACGGAGATGCCACCTTCCCAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
Db 254 GCTATGGACAACGTGACGGTCCGCGACGGGGAGAGCGCCACCTCAGGTGCTATTGAC 313
QY 61 AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleLeuValAlaGlyAsnAsp 80
Db 314 AACCGGTTCACCGGGTGGCTGCTAAACCGCAGCACCATCTCTATGCTGGAAATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTrpSerIle 100
Db 374 AAGTGGTGGCTGGATCTCTCGGTGGTCTCTGAGCAGACCCAAACGACGATACATC 433
QY 101 GluIleGlnAsnValAspValTyArgGluGlyProTyThrCysSerValGlnThrAsp 120
Db 434 GAGATCCAGACGTGTGTATGACGAGGGCCCTTACCTGCTCGTGACAGACAG 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
Db 494 AACCAACCAAGACCTCTAGGTCCTACCTATTGTGCAAGTATCTCCCAAAATGTAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGlnGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
Db 554 ATTCTCTCAGATATCTCCATTAAAGAGGAACAATATTAGCCTCAGCTCAGTAGAAT 613
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
Db 614 GGTAGACAGAGCCTTACGTTACTTGGAGACATCTCTCCCAAGCGGTGGCTTTG 673
QY 181 SerGluAspGluTyLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyGlu 200
Db 674 AGTGAAGACGATCTTGGAAATTCAGGCGCATCCCGGAGAGTCCAGGGAGTACGAG 733
QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn 220
Db 734 TGCAGTGCCTCCCAATGACGTGGCGCCCGCTGGTACGAGAGTAAGAGTACCGGTGAC 793
QY 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
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Db      854  CTGCGAGTGTGAGCCTCAGCAGTCCCTCCCTCAGCAGAAATCCAGTGGGTACAAAGATGACAAA 913
Oy      261  ArgLeuIleGluGlyLysLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
Db      914  AGACTGATTGAAGGAAGAAAGGGGTGAAGTGAAGTGAAGAACAGACCTTTCTCTCAAAACTC 973
Oy      281  IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
Db      974  ATCTCTCTCAATCTCTCTGAACATGACTATGGTCCAGGCGCGTCCAGCGAGTGCAGC 1033
Oy      301  LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
Db      1034  CTGGGCCACACCAATGCCAGCATCATCTATTGTTCCAGGCGCGTCCAGCGAGTGCAGC 1093
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Db      1094  AACGCGACGTCGAGGAGGCGAGGCTGCGTCTGGCTGCTGCTGCTGCTGCTGCTGCTGCTG 1153
Oy      341  LeuLeuLysPhe 344
Db      1154  CTCTCAAAATTT 1165

RESULT 11
CS-09-999-833A-522
; Sequence 522, Application US/09999833A
; Publication No. US2003005405A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gerritsen, Mary E.
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kijavich, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Nepier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; TITLE OF INVENTION: Acids Encoding the Same
; FILE REFERENCE: P2630P1C65
; CURRENT APPLICATION NUMBER: US/09/999,833A
; CURRENT FILING DATE: 2001-10-24
; PRIOR APPLICATION NUMBER: 09/918585
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;; PRIOR FILING DATE: 1998-05-15
;; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:

Pred. No.:	9.94e-216	Length:	1679
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Best Local Similarity:	100.00%	Mismatches:	0
Query Match:	100.00%	Indels:	0
DB:	11	Gaps:	0

US-10-017-084A-523 (1-344) x US-09-999-833A-522 (1-1679)

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QY	21	AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys	40
DB	194	GCTGCTGTGTCTCTTCCAGGAGTCCCGTCGGCAGGGAGATGCCACCTTCCCAAA	253
QY	41	AlaMetAspAsnValThrValArgGlnGlyCluSerAlaThrIleuArgCysThrIleAsp	60
DB	254	GCTATGACCAACGTGACGCTCCGCGAGGGGAGAGCCACCCCTAGGTGCACATTGAC	313
QY	61	AsnArgValThrArgValAlaTrpLeuAsnArgSerThrIleuTyAlaGlyAsnAsp	80
DB	314	AACCGGTTCACCGGGTGGCTTAAACCGCAGGACCATCTCTATGCTGGGAATGAC	373
QY	81	LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrSerIle	100
DB	374	AAGTGGTCCCTGGATCCTCGCTGCTCTTCTGAGCAACCAACCAACGACGATC	433
QY	101	GluIleGlnAsnValAspValTyTrpAspGluGlyProTyThrCysSerValGlnThrAsp	120
DB	434	GAGATCCAGAACGCTGATGTATGACGAGGGCCCTTACACCTGCTGCGTGCACAGAC	493
QY	121	AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu	140
DB	494	AACCAACCAAGACCTCTAGGCTCCACCTCATTGTCAAGTATCTCCCAAAATGTAGAG	553
QY	141	IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr	160
DB	554	ATTTCTTCAGATATCTCCATTATGAAGGGAACANATATTAGCTCACCTGCATAGCACT	613
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DB	614	GGTAGACGAGCCTACGCTTACTTGTGAGACACATCTCTCCCAAGCGGTGGCTTTGTG	673
QY	181	SerGluAspGluTyTrpLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyTrpGlu	200
DB	674	AGTGAAGACGAATACTTGGAAATTCAGGGCATCACCCTGGGAGCAGTACGGGACTAGCAG	733
QY	201	CysSerAlaSerAsnAspValAlaAlaProValValArgValIleValThrValAsn	220
DB	734	TGCAGTGCCTCCCAATGACGTGGCGCGCCCTGTGACGGAGAGTAAAGGTCCACGTGAAC	793
QY	221	TyrProProTyTrpIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr	240
DB	794	TATCCACCATACATTCAGAGGCCAAGGGTACAGGTGTCCCGCTGGGACAAAGGGGACA	853
QY	241	LeuGluCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyTrpLysAspLys	260
DB	854	CTGCGTGTGAGCCCTCAGCAGTCCCTCTACGAGAAATTCAGTGTACAGAGATGACAA	913


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; PRIOR FILING DATE: 1998-05-15
; PRIOR APPLICATION NUMBER: 60/085697

Alignment Scores:
Pred. No.: 9,94e-216 Length: 1679
Score: 1806.00 Matches: 344
Percent Similarity: 100.00% Conservative: 0
Best Local Similarity: 100.00% Mismatches: 0
Query Match: 100.00% Indels: 0
DB: 11 Gaps: 0

US-10-017-084a-523 (1-344) x US-09-981-915A-522 (1-1679)
QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB 134 ATGAAACCATCCAGCCAAAATGCAATTCATCTCTGGCAATCTTCACGGGGCTG 193
QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB 194 GCTGCTCTGCTCTTCCAAAGGAGTGCCCGTGGCGAGGAGATGCCACCTCCCAAA 253
QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB 254 GCTATGGACACGTGACGGTCCGCGAGGGGAGAGCGCCCTCAGGTGCTACTATTGAC 313
QY 61 AsnArgValThrArgValAlaThrLeuAsnArgSerThrIleLeuThrAlaGlyAsnAsp 80
DB 314 AACCGGGTCAACCGGGTGGCTGGCTAAACCCAGCACCATCTCTATGCTGGATGAC 373
QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
DB 374 AAGTGGTCCCTGGATCTCCGGTGGTCTTCTGAGCAACACCCAGGACGAGTACAGCATC 433
QY 101 GluIleGlnAsnValaspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
DB 434 GAGATCCAGACGCTGGATGTATGACGAGGGCCCTTACACCTGCTCGGTGCAGACAGAC 493
QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB 494 AACCCACCAAGACCTCTAGGGTCCACCTCATTGTGCAAGTATCTCCCAAAATTTGAGAG 553
QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 554 ATTTCTTCAGATATCTCCATTAAAGGGAACAATATTAGCCTCAGCTCATAGCACT 613
QY 161 GlyArgProGluProThrValThrTyrAlaGlnIleSerProLysAlaValGlyPheVal 180
DB 614 GGTAGACACGACCTGACGGTACTTGGACACACATCTCCCAAGCGGTTGCTTTGTG 673
QY 181 SerGluAspGluTyrLeuGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
DB 674 AGTGAAGACGAATCTTGGAAATTCAGGCGCATCACCCGGAGACATCGGGGACTACAGAG 733
QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValGlyValThrValAsn 220
DB 734 TGCAGTGCCTCAATGACGTGGCGCGCGGTGGTACGAGAGTAAAGGTACCGGTGAAC 793
QY 221 TyrProTyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
DB 794 TATCCACCATCATTTTCAGAGGCAAGGGGTACAGGTGTCCCGGTGGGACAAAAGGGGACA 853
QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnThrTyrLysAspAspLys 260
DB 854 CTGACGTGTGAAGCTCAGCAGTCCCTCAGCAGAAATTCAGTGGTACAAGGATGACAAA 913
QY 261 ArgLeuIleGluGlyLysLysValLysValLysValGluAsnArgProPheLeuSerLysLeu 280
DB 914 AGACTGATTTGAAGGAAAGGGGTGAAGTGGAAACACACACCTTTCTCTCAAACTC 973
QY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnThrThrCysValAlaSerAsnLys 300
DB 974 ATCTTCTTCATGTCTCTGAACATGACTATGGGAACACTACTTGGTGGCTCCCAAGAG 1033

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Alignment Scores: 9.94e-216 1679.
 Pred. No.: 1806.00 344
 Score:

Percent Similarity: 100.00%
 Best Local Similarity: 100.00%
 Query Match: 11
 DB: 11
 Gaps: 0
 Conservative: 0
 Mismatches: 0
 Indels: 0

US-10-017-084A-523 (1-344) x US-09-978-824-522 (1-1679)

QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
 DB 134 ATGAARACCATCCAGCCAAAATGCACAATTCATCTCTGGGCAATCTTCACGGGCTG 193
 QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 DB 194 GCTGCTGTGTCTCTTCCAAGGAGTCCCGTGGGAGGAGATGCCACCTCCCAAA 253
 QY 41 AlaMetAspAsnValThrValArgGlnGlyLeuSerAlaThrLeuArgCysThrIleAsp 60
 DB 254 GCTATGACACAGTGCAGGTCGCGAGGGAGGAGCCCTCAGGTGCACTATTGAC 313
 QY 61 AsnArgValThrArgValAlaIleTrpLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
 DB 314 AACCGGTGTCACCGGGTGGCTGGCTTAACCGGAGCACCATCTCTATGCTGGGAATGAC 373
 QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrGlnTyrSerIle 100
 DB 374 AAGTGTGCTCGATCCCTCGCGGTGGTCTTCTGAGCAACACCAACGAGTACAGCATC 433
 QY 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
 DB 434 GAGATCCAGAAGCGTGATGTATGACGAGGGGCGCTTACACCTGCTCGGTGCAGACAGAC 493
 QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
 DB 494 AACCCCAAGACCTCTAGGTCCACCTCATTTGTCAAGTATCTCCCAAAATTTAGAG 553
 QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 DB 554 ATTTCTCAGATATCTCCATTAATGAAGGCAACATATTAGCTCCTCAGTACAGCAACT 613
 QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
 DB 614 GGTAGACAGAGCGCTACGGTACTTGGAGACACATCTCTCCAAAGCGGTGGCTTGTG 673
 QY 181 SerGluAspGluTyrIleGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
 DB 674 AGTGAAGACGAATACTTGGAAATTCAGGGCATCACCAGGAGACAGTACAGGAGTACGAG 733
 QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn 220
 DB 734 TGCAGTGCCTCCCAATGACGTGGCGCGCGCGTGGTACGGAGAGTAAGGTACCGTGAAC 793
 QY 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValIleGlnLysGlyThr 240
 DB 794 TATCCACCATACATTTCAAGAGCCAGGGGTACAGGTGTCCCGTGGGACAAAAGGGGACA 853
 QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAspAspLys 260
 DB 854 CTCAGCTGTGAAGCTCAGCAGTCCCTCAGCAGAGATTCACGTGTGTGTGTGTGTGTGTGT 913
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 QY 281 IlePhePheAsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
 DB 974 ATCTTCTCATGTCTCTGAACATGATATGGAGACTACATGTGGTGGCTCTCAACAG 1033
 QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
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Alignment Scores:

Pred. No.: 9,94e-216 Length: 1679
 Score: 1806.00 Matches: 344
 Percent Similarity: 100.00% Conservative: 0
 Best Local Similarity: 100.00% Mismatches: 0
 Query Match: 100.00% Indels: 0
 DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x US-09-918-585A-522 (1-1679)

QY 1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTTPAlaIlePheThrGlyLeu 20
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 QY 21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
 DB 194 GCTGCTCTGTCTCTTCCAAAGGAGTCCCGCGCAGCGGAGATGCCACCTTCCCAAA 253
 QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
 DB 254 GCTATGGACACGTTGACGGTCCGCGAGGGGAGAGCCACCTCTAGTGCACATTTGAC 313
 QY 61 AsnArgValThrArgValAlaIleTTPLeuAsnArgSerThrIleLeuTyrAlaGlyAsnAsp 80
 DB 314 ACCGGGTCCACCGGGTGGCTGGCTAAACCCGACGACCATCTCTATGTGGGAATGAC 373
 QY 81 LysTrpCysLeuAspProArgValValLeuLeuSerAsnThrGlnThrIleSerIle 100
 DB 374 AGTGGTGGCTGGATCTCTCGGTGGTCTTCTGAGCAACACCCAAACGACGACATC 433
 QY 101 GluIleGlnAsnValAspValTyrAspGluGlyProTyrThrCysSerValGlnThrAsp 120
 DB 434 GAGATCCAGACGTTGATGTATGACGAGGGCCCTTACCTCTCTCGGTGCAGACGAC 493
 QY 121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
 DB 494 ACCACCCAAAGACCTTAGGGTCCACCTCATTTGTGCAAGTATCTCCAAATTTGAGAG 553
 QY 141 IleSerSerAspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
 DB 554 ATTTCTTCAGATATCTCCATTAATGAAGGGAACAATATTAGCTCCTCAGCTCATAGCACT 613
 QY 161 GlyArgProGluProThrValThrTTPArgHisIleSerProLysAlaValGlyPheVal 180
 DB 614 GGTAGACGAGACCTTACCTTACTTGTGAGACACATCTCTCCAAAGCGTTGGCTTTGTG 673
 QY 181 SerGluAspGluTyrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspTyrGlu 200
 DB 674 AGTGAAGACGAAATCTTGGAAATTCAGGGCATCCCGGGAGCAGTCAGGGACTACGAG 733
 QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValValLysValThrValAsn 220
 DB 734 TGCAGTGCCTCCATGACGTGGCGCGCCCGTGGTACGGAGAGTAAGGTACCGTGAAC 793
 QY 221 TyrProProTyrIleSerGluAlaLysGlyThrGlyValProValGlnLysGlyThr 240
 DB 794 TATCCACCATACATTTTCAGAACGACGAGGTACAGGTGTCCCGGTGGACAAAGGGGACR 853
 QY 241 LeuGlnCysGluAlaSerAlaValProSerAlaGluPheGlnTyrTyrLysAspAspLys 260
 DB 854 CTGAGTGTGAAGGCTCAGCAGTCCCTCAGCAGAAATTCAGAGTGTACAGGATGACAAA 913
 QY 261 ArgLeuIleGluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeu 280
 DB 914 AGACTGATTTGAAGGAAAGAGGGGTGAAAGTGGAAAAACAGACCTTTCTCTCAAAACTC 973
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 DB 974 ATCTTCTCAATGTCTCTGAACATGACTATGGGAACACTTGGTGGCTCTCAACAAG 1033
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 QY 321 AsnGlyThrSerArgArgAlaGlyCysValTrpLeuLeuProLeuLeuValHisLeu 340
 DB 1094 AACGGCAGCTCAGGAGGGGAGGCTGGCTGCTGCTGCTCTCTCTGCTTGTGGTGTGACCTG 1153
 QY 341 LeuLeuLysPhe 344
 DB 1154 CTCTCAAAATTT 1165

RESULT 15

US-09-978-423A-522
; Sequence 522, Application US/0978423A
; Publication No. US20030069178A1
; GENERAL INFORMATION:
; APPLICANT: Ashkenazi, Avi
; APPLICANT: Baker Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnoyers, Luc
; APPLICANT: Eaton, Dan
; APPLICANT: Ferrara, Napoleon
; APPLICANT: Filvaroff, Ellen
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Gerber, Hanspeter
; APPLICANT: Gottard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, J. Christopher
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Kljavin, Ivar J.
; APPLICANT: Kuo, Sophia S.
; APPLICANT: Napier, Mary A.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; APPLICANT: Roy, Margaret Ann
; APPLICANT: Shelton, David L.
; APPLICANT: Stewart, Timothy A.
; APPLICANT: Tumas, Daniel
; APPLICANT: Williams, P. Mickey
; APPLICANT: Wood, William I.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2630PIC21
; CURRENT APPLICATION NUMBER: US/09/978,423A
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US-10-017-084A-523 (1-344) x US-09-978-423A-522 (1-1679)

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QY 41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
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 DB 614 GGTAGACACAGCCCTACGGTTACTTGTGAGACACATCTCTCCAAAGCGTTGGCTTTG 673
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Search completed: September 11, 2003, 05:38:57
 Job time : 1482 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2003 CompuGen Ltd.

OM protein - nucleic search, using frame_plus_p2n model

Run on: September 11, 2003, 03:07:39 ; Search time 2500 Seconds
(without alignments)
3344.296 Million cell updates/sec

Title: US-10-017-084A-523
Perfected score: 1806
Sequence: 1 MKTIQPKHNSISWAFTGL.....RRAGCVWLLPLVLLHLLKF 344

Scoring table: BLOSUM62
Xgapop 10.0, Xgapext 0.5
Ygapop 10.0, Ygapext 0.5
Fgapop 6.0, Fgapext 7.0
Delop 6.0, Delext 7.0

Searched: 22781392 seqs, 12152238056 residues

Total number of hits satisfying chosen parameters: 45562784

Minimum DB seq length: 0
Maximum DB seq length: 2000000000
Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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8: em_hic.*
9: gb_est1.*
10: gb_est2.*
11: gb_hic.*
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23: em_gss_mus.*
24: em_gss_pro.*
25: em_gss_rtd.*
26: em_gss_phg.*
27: em_gss_vrl.*
28: gb_gss1.*

29: gb_gss2.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1780	98.6	1808	11	AK045973 Mus muscu
2	1780	98.6	1808	11	AK046377 Mus muscu
3	1254	69.4	765	14	CD354474 UI-M-GMO-
4	1195.5	66.4	856	13	BU155617 AGENCOURT
5	1167	64.6	1039	10	BE798585 601581610
6	1112	61.6	890	14	CD327172 AGENCOURT
7	1062.5	58.8	1085	9	AL533026 AL533026
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9	1042	57.7	840	13	BU320256 603851118
10	1005.5	55.7	849	12	BI753360 603024964
11	982.5	54.4	865	12	BI666583 603291469
12	973	53.9	601	14	CB582386
13	929	51.4	793	13	BU365385
14	926	51.3	545	10	BE263639
15	925.5	51.2	979	10	RG261691
16	916.5	50.7	2768	11	AK030681 Mus muscu
17	912	50.5	732	12	BI551784
18	910	50.4	553	10	BE864555
19	907	50.2	524	10	BE014142
20	902.5	50.0	859	14	CD352578 AGENCOURT
21	894	49.5	2467	11	AK044845 Mus muscu
22	890	49.3	784	12	BI549918
23	881	48.8	768	9	AU080629
24	875	48.4	754	12	BI550038
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27	862.5	47.8	891	12	BM423716
28	858.5	47.5	1033	12	BM807426
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42	761.5	42.2	858	14	CD325821
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44	759	42.0	2534	11	AK039193
45	742	41.1	827	14	CA306798

ALIGNMENTS

RESULT 1	AK045973	Mus musculus adult male corpora quadrigemina cDNA, RIKEN	1808 bp	mRNA	linear	HTC 05-DEC-2002
LOCUS	AK045973	full-length enriched library, clone:B230328N06 product:NEUROTRIMIN				
DEFINITION	AK045973	PRECURSOR (gp65) homolog (Rattus norvegicus), full insert sequence.				
ACCESSION	AK045973	GI:26337738				
VERSION	AK045973	HTC; CAP trapper				
KEYWORDS	AK045973	Mus musculus (house mouse)				
SOURCE	AK045973	Mus musculus				
ORGANISM	AK045973	Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.				

REFERENCE

1
AUTHORS
TITLE
JOURNAL
MEDLINE
PUBMED
10349636

Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)

REFERENCE

2
AUTHORS

Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, H., Konno, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)

JOURNAL

20499374

11042159

REFERENCE

3
AUTHORS

Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
Konno, H., Akiyama, J., Nishi, K., Kitzunai, T., Tashiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishine, T., Hatada, A.,
Yanamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Katsuki, M.,
Yoneda, Y., Ishikawa, T., Ozawa, K., Tanaka, I., Matsura, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, I., Kira, A., and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)

JOURNAL

20530913

11076861

REFERENCE

4
AUTHORS

Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y.,
Arakawa, T., Hara, A., Fukunishi, Y., Konno, H., Adachi, J., Fukuda, S.,
Aizawa, K., Izawa, M., Nishi, K., Kiyosawa, H., Kondo, S., Yamanaka, I.,
Saito, T., Okazaki, Y., Gojobori, T., Bono, H., Kasukawa, T., Saito, R.,
Kadota, K., Matsuda, H., Ashburner, M., Batalov, S., Casavant, T.,
Fleischmann, W., Gaasterland, T., Gissi, C., King, B., Kochiwa, H.,
Kuehl, P., Lewis, S., Matsuo, Y., Nikaudo, I., Pesole, G.,
Quackenbush, J., Schriml, L. M., Stauble, J., Suzuki, R., Tomita, M.,
Wagner, L., Washio, T., Sakai, K., Okido, T., Furuno, M., Aono, H.,
Baldracci, R., Barsh, G., Blake, J., Boffelli, D., Bojunga, N.,
Carninci, P., de Bonaldo, M. F., Brownstein, M. J., Bult, C.,
Fletcher, C., Fujita, M., Gariboldi, M., Gustincich, S., Hill, D.,
Hofmann, M., Hume, D. A., Kamiya, M., Lee, N. H., Lyons, P.,
Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P.,
Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H.,
Sato, K., Schonbach, C., Seva, T., Shibata, Y., Storch, K. F., Suzuki, H.,
Toyooka, K., Wang, K. H., Weitz, C., Whittaker, C., Wilming, L.,
Wynshaw-Boris, A., Yoshida, K., Hasegawa, I., Kawai, J., Kontsuki, S.,
and Hayashizaki, Y.
Functional annotation of a full-length mouse cDNA collection
Nature 409 (6821), 685-690 (2001)

JOURNAL

21085660

11217851

REFERENCE

5
AUTHORS

The FANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)

JOURNAL

21085660

11217851

REFERENCE

6
AUTHORS

Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
Sano, H., Sasaki, D., Shibata, K., Shigenaga, A., Shiraki, T.,
Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahira, S.,
Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A.,
Muramatsu, M., and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome

JOURNAL

21085660

COMMENT

Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
kanagawa 230-0045, Japan (E-mail: genome-res@gsc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
Fax: 81-45-503-9216)
cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN.
Division of Experimental Animal Research in Riken contributed to
prepare mouse tissues.
Please visit our web site for further details.
URL: http://genome.gsc.riken.go.jp/
URL: http://fantom.gsc.riken.go.jp/

FEATURES

Location/Qualifiers

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204..1238

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ORIGIN

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Score: 1780.00 Matches: 337

Percent Similarity: 99.42% Conservative: 5

Best Local Similarity: 97.97% Mismatches: 2

Query Match: 98.56% Indels: 0

DB: 11 Gaps: 0

US-10-017-084A-523 (1-344) x AK045973 (1-1808)

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RESULT 2
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DEFINITION
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full-length enriched library, clone:B230377K17 product:NEUROTRIMIN
PRECURSOR (GP65) homolog [Rattus norvegicus], full insert sequence.
AK046377
ACCESSION
AK046377.1 GI:26338018
VERSION
KEYWORDS
HTC: CAP trapper
Mus musculus (house mouse)
SOURCE
ORGANISM
Mus musculus
REFERENCE
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1
Carninci, P. and Hayashizaki, Y.
TITLE
High-efficiency full-length cDNA cloning
JOURNAL
Meth. Enzymol. 303, 19-44 (1999)
MEDLINE
99279253
PUBMED
10349636
2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,

TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
Itoh, M., Konno, H., Okazaki, Y., Muramatsu, M. and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
20499374
11042159
3
Shibata, K., Itoh, M., Aizawa, K., Nagaoka, S., Sasaki, N., Carninci, P.,
Konno, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishino, T., Harada, A.,
Yamamoto, R., Inoue, K., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwara, S., Matsuoka, T., Ozawa, K., Tanaka, T., Ohara, E., Watabiki, M.,
Yoneda, Y., Ishikawa, T., Kato, Y., Kira, A., Matsura, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A. and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system--384-format
sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)
20530913
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4
Kawai, J., Shinagawa, A., Shibata, K., Yoshino, M., Itoh, M., Ishii, Y.,
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Marchionni, L., Mashima, J., Mazzarelli, J., Mombaerts, P., Nordone, P.,
Ring, B., Ringwald, M., Rodriguez, I., Sakamoto, N., Sasaki, H.,
Sato, K., Schonbach, C., Seva, T., Shibata, Y., Storch, K.F., Suzuki, H.,
Toyooka, K., Wang, K.H., Weitz, C., Whittaker, C., Wilming, L.,
Wynshaw-Boris, A., Yoshida, K., Hasegawa, Y., Kawaji, H., Kohtsuki, S.
and Hayashizaki, Y.
Functional annotation of a full-length mouse cDNA collection
Nature 409 (6821), 685-690 (2001)
21085660
11217851
5
The FANTOM Consortium and the RIKEN Genome Exploration Research
Group Phase I & II Team.
Analysis of the mouse transcriptome based on functional annotation
of 60,770 full-length cDNAs
Nature 420, 563-573 (2002)
6 (bases 1 to 1808)
TITLE
JOURNAL
MEDLINE
PUBMED
REFERENCE
AUTHORS
Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P.,
Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, W.,
Hayashida, K., Hayatsu, N., Hiramoto, K., Hiraoka, T., Hirozane, T.,
Hori, F., Imotani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T.,
Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M.,
Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M.,
Nakamura, M., Nishi, K., Nomura, K., Numazaki, R., Ohno, M., Ohsato, N.,
Okazaki, Y., Saito, R., Saitoh, H., Sakai, C., Sakai, K., Sakazume, N.,
Sano, H., Sasaki, D., Shibata, K., Shinagawa, A., Shiraki, T.,
Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akai, S.,
Takeda, Y., Tanaka, T., Tomaru, A., Toyai, F., Yasunishi, A.,
Muramatsu, M. and Hayashizaki, Y.
Direct Submission
Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of
Physical and Chemical Research (RIKEN), Laboratory for Genome
Exploration Research Group, RIKEN Genomic Sciences Center (GSC),
RIKEN Yokohama Institute, 1-7-22 Suehiro-cho, Tsurumi-ku, Yokohama,
Kanagawa 230-0045, Japan (E-mail: genome-res@sc.riken.go.jp,
URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222,
Fax: 81-45-503-9216)
cDNA library was prepared and sequenced in Mouse Genome
Encyclopedia Project of Genome Exploration Research Group in Riken
Genomic Sciences Center and Genome Science Laboratory in RIKEN.

Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.
Please visit our web site for further details.

FEATURES SOURCE

source

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BASE CO
ORIGIN

Alignment Scores:

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US-10-017-084A-523 (1-344) X AK046377 (1-1808)

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TITLE			
JOURNAL			
COMMENT			
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ACCESSION BE798585
 VERSION BE798585.1 GI:10219783

KEYWORDS EST.

SOURCE Homo sapiens (human)

ORGANISM

Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.

1 (bases 1 to 1039)

NIH-MGC http://mgi.nci.nih.gov/

National Institutes of Health, Mammalian Gene Collection (MGC)

Unpublished

Contact: Robert Strausberg, Ph.D.

Email: cgabbs-remail.nih.gov

Tissue Procurement: DCDT/PTP

cDNA Library Preparation: Ling Hong/Rubin Laboratory

cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)

DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LLNL at: image.llnl.gov
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Location/Qualifiers

FEATURES

source

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 the laboratory of Gerald M. Rubin (University of
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 ORIGIN

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US-10-017-084A-523 (1-344) x BE798585 (1-1039)

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 1 (bases 1 to 1085)
 Li, W.B., Gruber, C., Jessee, J., and Polayes, D.
 Full-length cDNA libraries and normalization.
 Unpublished
 On Feb 13, 2001 this sequence version replaced gi:12796519.
 Contact: Genoscope
 Genoscope - Centre National de Sequencage
 BP 191 91006 EVRY cedex - France
 Email: seqref@genoscope.cns.fr, Web: www.genoscope.cns.fr
 Library was constructed by Life Technologies, a division of
 Invitrogen. This sequence belongs to sequence cluster 6387.f For
 more information about this cluster, see
 http://www.genoscope.cns.fr/
 cgi-bin/cluster.cgi?seq=CS0DN005DB100P1cluster=6387.f. Contact :
 Feng Liang Email: fliang@lifetech.com URL :
 http://fulllength.invitrogen.com/ Invitrogen Corporation 1600
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 VERSION BU368328.1 GI:25876329
 KEYWORDS EST.
 SOURCE Gallus gallus (chicken)
 ORGANISM Gallus gallus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus
 Boardman, P.E., Sanz-Ezquerro, J., Overton, I.M., Burt, D.W., Bosch, E.,
 Fong, W.P., Fickie, C., Brown, W.R.A., Wilson, S.A. and Hubbard, S.J.
 A Comprehensive Collection of Chicken CDNAS
 Curr. Biol. 12 (22), 1965-1969 (2002)
 22335534
 MEDLINE PUBMED
 COMMENT
 Contact: Simon Hubbard
 Department of Biomolecular Sciences
 University of Manchester Institute of Science and Technology (UMIST)
 PO Box 88, Manchester, M60 10D, UK
 Tel: 01612008930
 Fax: 01612360409
 Email: Simon.Hubbard@umist.ac.uk.
 Location/Qualifiers
 1. 740
 /organism="Gallus gallus"
 /mol_type="mRNA"
 /strain="Compton Line 151"
 /db_xref="taxon:9031"
 /clone="CHEST750p6"
 /sex="Female"
 /tissue_type="cerebrum"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="CSEQCHN72"
 /note="Organ: Brain; Vector: pBluescript II KS(+); Site_1:
 EcoRI; Site_2: NotI; This normalized library was
 constructed from 1 million independent clones. cDNA

synthesis was initiated using an oligo(dT) primer, using methylated C in the first strand synthesis reaction. Following this first strand reaction, double-stranded cDNA was blunted, ligated to NotI adapters, digested with EcoRI, size-selected, and cloned into the NotI and EcoRI compatible sites of a custom modified MCS of the pBluescript (KS+) vector. The library was normalized in 2 rounds using conditions adapted from Soares et al., PNAS (1994) 91: 9228-9232 and Bonaldo et al., Genome Research 6 (1996): 791, except that a significantly longer reannealing hybridization was used."

BASE COUNT 170 a 234 c 207 g 129 t

ORIGIN

Alignment Scores:
Pred. No.: 3.8e-109 Length: 740
Score: 1047.00 Matches: 192
Percent Similarity: 91.8% Conservative: 22
Best Local Similarity: 82.4% Mismatches: 19
Query Match: 57.9% Indels: 0
DB: 13 Gaps: 0

US-10-017-084A-523 (1-344) x BU368328 (1-740)

QY 101 GlnLeuGlnValSerValThrAspGlyProTyrThrCysSerValGlnThrAsp 120
DB 3 CAGATCCAGCGTGGAGCTGTAGCATGAAGGCCCTACACCTCGCGTGCAGACAG 62
QY 121 AsnHisProLysThrSerArgValHisLeuValGlnValSerProLysIleValGlu 140
DB 63 AATCACCACCAAGACATCTCGCGTGCACCTCATTTGTGCAAGTGTCCGCGAAATACCGAG 122
QY 141 IleSerSerAspIleSerIleAsnGlnGlyAsnAsnIleSerLeuThrCysIleAlaThr 160
DB 123 ATCTCTCTGACATCTCCATCAATGAAGGTGGCAAGCTCAGCTCAGCTCATGACCG 182
QY 161 GlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVal 180
DB 183 GGCAGGCCAGACCCACAAATCACCTGGAGACACATCTGCCCAAGGTGGGCTTCATC 242
QY 181 SerGlnAspGlyLeuGlnLeuGlnGlyLeuThrArgGlnGlnSerGlyAspTyrGlu 200
DB 243 AGCAGGAGCAGTACTCGAGATCACAGGCATCACAGGAGGAGGAGTGGCGGAGTACGAG 302
QY 201 CysSerAlaSerAsnAspValAlaAlaProValValArgValLysValThrValAsn 220
DB 303 TGCAGTGTCTTCACAGCTGGCGCCCTGTCTGTCACGAGTCAAGTCAAGTCAAGTCAAC 362
QY 221 TyrProProTyrIleSerGlnAlaLysGlyThrGlyValProValGlyGlnLysGlyThr 240
DB 363 TACCCACCTAGATCTCGGATGCGAGAGACCGGTGTGCGCGTGGGCGAGAGGCGATC 422
QY 241 LeuGlnCysGlnAlaSerAlaValProSerAlaGluPheGlnTrpTyrLysAspAspLys 260
DB 423 CTGATGTGTGAAGCTCGCGTGTGCTCCCTCGCTGACTTCCAGTGTACAAAGACGACAAG 482
QY 261 ArgLeuIleGlnGlyLysGlyValLysValGlnAsnArgProPheLeuSerLysLeu 280
DB 483 CGCTGCTGGAAGGACAGAAAGGCTGAAGTGGAAACAAAGCTTCTTCTCCGACTG 542
QY 281 IlePheAsnValSerGlnHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLys 300
DB 543 ACTTCTTCTACGCTTCGAGCAGGACTACGCACTACCTCGCGTGGGCTCCACACGAG 602
QY 301 LeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSer 320
DB 603 CTAGGAACACCAAGCCAGCATGATCTTTATGGCCCGGTGGCGTGCAGTGCAGTGCAC 662
QY 321 AsnGlyThrSerArgArgAlaGlyCysValThrLeu 333
DB 663 AGCGGTGCGTGGCGGAGGAGCGTGTGCTGCTGCTGCTG 701

RESULT 9

BU320256 840 bp mRNA linear EST 28-NOV-2002
LOCUS 603851118F1 CSEQCHN62 Gallus gallus CDNA clone CHEST847d5 5', mRNA
DEFINITION sequence.
ACCESSION BU320256
VERSION BU320256.1 GI:25828257
KEYWORDS EST.
SOURCE Gallus gallus (chicken)
ORGANISM Gallus gallus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
Phasianinae; Gallus
1 (bases 1 to 840)
AUTHORS Boardman, P.E.; Sanz-Ezquerro, J.; Overton, I.M.; Burt, D.W.; Bosch, E.;
Fong, W.T.; Tickle, C.; Brown, W.R.A.; Wilson, S.A. and Hubbard, S.J.
TITLE A Comprehensive Collection of Chicken cDNAs
JOURNAL Curi Biol. 12 (22), 1965-1969 (2002)
MEDLINE 22335534
PUBMED 12445392
COMMENT Contact: Simon Hubbard
Department of Biomolecular Sciences
University of Manchester Institute of Science and Technology (UMIST)

PO Box 88, Manchester, M60 10D, UK
Tel: 01612008930
Fax: 01612360409
Email: Simon.Hubbard@umist.ac.uk

FEATURES

source
1..840
Location/Qualifiers
/organism="Gallus gallus"
/mol_type="mRNA"
/strain="White Leghorn, Hisex"
/db_xref="taxon:9031"
/clone="CHEST847d5"
/dev_stage="36"
/lab_host="DH10B"
/clone_lib="CSEQCHN62"
/note="Organ: heads; Vector: pBluescript II KS(+); Site_1:
EcoRI; Site_2: NotI; This normalized library was
constructed from 1 million independent clones cDNA
synthesis was initiated using an oligo(dT) primer, using
methylated C in the first strand synthesis reaction.
Following this first strand reaction, double-stranded cDNA
was blunted, ligated to NotI adapters, digested with EcoRI
, size-selected, and cloned into the NotI and EcoRI
compatible sites of a custom modified MCS of the
pBluescript (KS+) vector. The library was normalized in 2
rounds using conditions adapted from Soares et al., PNAS
(1994) 91: 9228-9232 and Bonaldo et al., Genome Research 6
(1996): 791, except that a significantly longer
reannealing hybridization was used."

BASE COUNT 210 a 256 c 231 g 143 t

ORIGIN

Alignment Scores:
Pred. No.: 1.71e-108 Length: 840
Score: 1042.00 Matches: 194
Percent Similarity: 91.14% Conservative: 22
Best Local Similarity: 81.86% Mismatches: 20
Query Match: 57.70% Indels: 1
DB: 13 Gaps: 0

US-10-017-084A-523 (1-344) x BU320256 (1-840)

QY 98 TyrSerIleGlnLeuGlnAsnValSerValThrAspGlyProTyrThrCysSerVal 117
DB 2 TACAGATCCAGTCCAGCGTGCAGTGTAGCATGAAGGCCCTACACCTCGCTCGTG 61
QY 118 GlnThrAspAsnHisProLysThrSerArgValHisLeuValGlnValSerProLys 137
DB 62 CAGACAGACAAATCAACCCCAAGACATCTCGCGTGCACCTCATTTGTGCAAGTGTCCGCGAA 121
QY 138 IleValGlnLysSerSerAspIleSerIleAsnGlnGlyAsnAsnIleSerLeuThrCys 157


```

DB      803 CTCGAGTCCCATGCTGAATCCAGTGGTTC 836
RESULT 11
LOCUS   BI666583
DEFINITION 503291469F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5310833 5',
mRNA sequence.
ACCESSION BI666583
VERSION   BI666583.1 GI:15580816
KEYWORDS  EST.
SOURCE    Homo sapiens (human)
ORGANISM  Homo sapiens
REFERENCE 1 (bases 1 to 865)
AUTHORS   Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE      Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
JOURNAL   NIH-MGC http://mhc.nci.nih.gov/
COMMENT   National Institutes Of Health, Mammalian Gene Collection (MGC)
Contact: Robert Strausberg, Ph.D.
Email: cgapbs-remail.nih.gov
Tissue Procurement: Miklos Palkovits, M.D., Ph.D.
cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
Toshiyuki and Piero Carninci (RIKEN)
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM11787 row: j column: 18
High quality sequence stop: 742.
FEATURES             Location/Qualifiers
     source           1..865
                     /organism="Homo sapiens"
                     /mol_type="mRNA"
                     /db_xref="taxon:9606"
                     /clone="IMAGE:5310833"
                     /tissue_type="hypothalamus"
                     /lab_host="DH10B"
                     /clone_lib="NIH_MGC_96"
                     /note="Organ: Brain; Vector: pBluescriptR (modified
                     pBluescript KS+); Site:1: BamHI; Site:2: SalI-XhoI (gtcgag
                     ); Oligo-dt primed using primer 5'-TTTTTrrrrrrrrrrrrrVN-3',
                     size-selected for average insert size 2.3 kb and
                     normalized to ROT 5. This is a primary library enriched
                     for full-length clones and constructed using the
                     Cap-trapper method (Carninci, in preparation). Library
                     constructed by M. Brownstein (NIH/NHGRI, National
                     Institutes of Health). Note: this is a NIH_MGC Library."
BASE COUNT  250 a 230 c 209 g 176 t
ORIGIN
Alignment Scores:
Pred. No.:      1.16e-101      Length:      865
Score:          982.50         Matches:    207
Percent Similarity: 90.91%      Conservative: 3
Best Local Similarity: 89.61%   Mismatches: 13
Query Match:    54.40%         Indels:     8
DB:             12             Gaps:       3

US-10-017-084A-523 (1-344) x BI666583 (1-865)
QY      1 MetLysThrIleGlnProLysMetHisAsnSerIleSerTrpAlaIlePheThrGlyLeu 20
DB      183 ATGAACAACCAATCCAGCCCAAAATTCATCTCTTGGGCAATCTTCACGGGGGTG 242
QY      21 AlaAlaLeuCysLeuPheGlnGlyValProValArgSerGlyAspAlaThrPheProLys 40
DB      243 GCTGCTCTGTGCTCTTCCAGGAGTGCCCGTCCGACGAGATGCCACCTTCCCAA 302
QY      41 AlaMetAspAsnValThrValArgGlnGlyGluSerAlaThrLeuArgCysThrIleAsp 60
DB      303 GCTATGGACACAGTGCAGGTCCGGCAGGGGAGAGCGCCACCTCAGGTGCATATTGAC 362
QY      61 AsnArgValThrArgValAlaValAlaValLeuAsnArgSerThrIleLeuTyAlaGlyAsnAsp 80
DB      363 AACCGGGTCACCGGGTGGCTGGCTAAACCCGACGACCATCTCTATGCTGGGAATGAC 422
QY      81 LysTrpCysLeuAspProAspArgValValLeuLeuSerAsnThrGlnThrGlnTrpSerIle 100
DB      423 AAGTGTGCTGCTGATCTCGCGTGGTCTTCTGAGCAACACCCAAACGACGAGTACAGCATC 482
QY      101 GluIleGlnAsnValAspValTyArgGlyProTyThrCysSerValGlnThrAsp 120
DB      483 GAGATCCAGACGATGGATGTGTATGACGAGGGCCCTTACACCTGCTCGGTGCAGACAGAC 542
QY      121 AsnHisProLysThrSerArgValHisLeuIleValGlnValSerProLysIleValGlu 140
DB      543 AACCAACCCAAAGACCTTAGGGTCCACCTTCATTTGGCAAGTATCTCCCAAAATTTGAGAG 602
QY      141 IleSerSerAspIleSerIleAsnGluGlyAsn-AsnIleSerLeuThrCysIleAlaTh 160
DB      603 ATTCTTCAGATATCTCCATTATGAAAGGGAACAATATTAGCTCACCCTCAGTCATAGCAAC 662
QY      160 rGlyArgProGluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheVa 180
DB      663 TGTAGACACGAGGCTACGGTTACTTTGGAGACACATCTCTCCAAAGCGGTGGCTTTGT 722
QY      180 lSerGluAspGluTyLeu---GluIleGlnGlyIleThrArgGlu-GlnSer---GlyA 198
DB      723 GAGTGAAGACGAACACTTACTTGGGAACCTCAGGGCCATCTCCGGGGAGCCAGTCAAGGG 782
QY      198 sPtyrGluCys-SerAlaSerAsn-AspValAlaAla-ProValValArgArgValLysV 217
DB      783 TAACGAGTTGGCAGTGCCTCCATGGACGTTGGCGGCCCGCTGGTACGGAGAAGTACAC 842
QY      217 alThrValAsnTyr---ProPro 223
DB      -843 AGTCCACGGGATATTTCCACCA 865

RESULT 12
LOCUS   CB582386
DEFINITION AMGNNUC:NRHYS-00414-H5-A W Rat hypothalamus (10471) Rattus
norvegicus cDNA clone nrhys-00414-h5 5', mRNA sequence.
ACCESSION CB582386
VERSION   CB582386.1 GI:29526427
KEYWORDS  EST.
SOURCE    Rattus norvegicus (Norway rat)
ORGANISM  Rattus norvegicus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
Rattus.
REFERENCE 1 (bases 1 to 601)
AUTHORS   Amgen EST Program.
TITLE      Amgen Rat EST Program
JOURNAL    Unpublished
COMMENT    Contact: Dan Fitzpatrick
Amgen, Inc.
One Amgen Center Drive, Thousand Oaks, CA 91320-1799, USA
Tel: 805 447-4881
Plate: 00414; row: h column: 5.
FEATURES             Location/Qualifiers
     source           1..601
                     /organism="Rattus norvegicus"
                     /mol_type="mRNA"
                     /db_xref="taxon:10116"
                     /clone="nrhys-00414-h5"
                     /clone_lib="W Rat hypothalamus (10471)"
                     /note="Vector: pSPORT1; Site:1: SalI; Site:2: NotI; W Rat
                     hypothalamus adult female Wistar rat avg. insert size 2.3
                     kb fraction 6 and 7"
BASE COUNT  151 a 157 c 162 g 130 t
ORIGIN
Alignment Scores:
Pred. No.:      8.25e-101      Length:      601

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Score: 973.00 Matches: 182
 Percent Similarity: 98.95% Conservative: 6
 Best Local Similarity: 95.79% Mismatches: 2
 Query Match: 53.88% Indels: 0
 DB: 14 Gaps: 0

US-10-017-084A-523 (1-344) x CB582386 (1-601)

QY 155 LeuThrCysIleAlaThrGlyArgProGluProThrValThrTrpArgHisIleSerPro 174
 DB 15 CTCACCTGCATACACACAGGTAGACCGGAGCCCTACAGTAACTCGGAGACATATTTCTCC 74
 QY 175 LysAlaValGlyPheValSerGluAspGluThrLeuGluIleGlnGlyThrArgGlu 194
 DB 75 AAACCTGTCGGCTTGTGAGTGAGGATGAGTACTCGAGTCCAGGGGCTACCTCGGGAG 134
 QY 195 GlnSerGlyAspThrGluCysSerAlaSerAsnAspValAlaAlaProValValArgArg 214
 DB 135 CAGTCAGCGCGATGATGATGACGCGCTCCACGACGTGGCAGCACCAGTGTGACGAAGA 194
 QY 215 ValLysValThrValAsnThrProProThrIleSerGluAlaLysGlyThrGlyValPro 234
 DB 195 GTGAAGTCCACCTGAACTATCCACCATATCTCAGAAAGCTTAAGGGTACAGGTGTCGCC 254
 QY 235 ValGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaValProSerAlaGluPheGln 254
 DB 255 GTGGGCGAGAGGGGACTCTCAGTGTGAAGCCTCGCAGTCCCTTCAGCAGAAATTTTCA 314
 QY 255 TrpThrLysAspAspLysArgLeuIleGluGlyLysGlyValLysValGluAsnArg 274
 DB 315 TGGTTCAGGATGACAAAGACTGTTGAAGGGAAGAGGAGTCAAGTGGAAACAGA 374
 QY 275 ProPheLeuSerLysLeuIlePhePheAsnValSerGluHisAspThrGlyAsnThr 294
 DB 375 CTTTCTCTTCAAGACTACCTTTTCAACGCTCTCTGAACAGCATATGGGAATACACA 434
 QY 295 CysValAlaSerAsnLysLeuGlyHisThrAsnAlaSerIleMetLeuPheGlyProGly 314
 DB 435 TGTGTGCATCCAAAGTGGGCCACACCAATGCCAGCATATGCTATTATGGCCAGT 494
 QY 315 AlaValSerGluValSerAsnGlyThrSerArgArgAlaGlyCysValThrProLeuPro 334
 DB 495 GCTGTACGAGGTCAACATGGGACGTCAAGGAGGCGANGCTGATTTGGCTCTCTCCCT 554
 QY 335 LeuLeuValLeuHisLeuLeuLysPhe 344
 DB 555 CTTCTGTCTTACACTGCTCTCTCAAAATTT 584

RESULT 13
 BU365385

LOCUS 603786031F1 CSEQCHN72 793 bp mRNA linear EST 28-NOV-2002
 DEFINITION Gallus gallus cdna clone ChEST742m7 5', mRNA

ACCESSION BU365385

VERSION BU365385.1 GI:25873373

KEYWORDS EST

SOURCE Gallus gallus (chicken)

ORGANISM Gallus gallus

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Archosauria; Aves; Neognathae; Galliformes; Phasianidae;
 Phasianinae; Gallus

1 (bases 1 to 793)

AUTHORS Boardman, P. E., Sanz-Ezquerro, J., Overton, I. M., Burt, D. W., Bosch, E.,
 Fong, W. T., Tickle, C., Brown, W. A., Wilson, S. A., and Hubbard, S. J.

TITLE A Comprehensive Collection of Chicken cDNAs

JOURNAL Curr Biol. 12 (22), 1965-1969 (2002)

MEDLINE 22355534

PUBMED 12445392

CONTACT: Simon Hubbard

Department of Biomolecular Sciences

University of Manchester Institute of Science and Technology (UMIST)

PO Box 88, Manchester, M60 1QD, UK

Tel: 01612008930
 Fax: 01612360409
 Email: Simon.Hubbard@umist.ac.uk

FEATURES
 Location/Qualifiers

1..793
 /organism="Gallus gallus"
 /mol_type="mRNA"
 /strain="Compton Line 151"
 /db_xref="caon:9031"
 /clone="ChEST742m7"
 /sex="Female"
 /tissue_type="cerebrum"
 /dev_stage="adult"
 /lab_host="DH10B"
 /clone_lib="CSEQCHN72"

/note="Organ: brain; Vector: pBluescript II KS(+); Site_1:
 EORI: Site_2: NotI; This normalized library was
 constructed from 1 million independent clones. cDNA
 synthesis was initiated using an oligo(dT) primer, using
 methylated C in the first strand synthesis reaction.
 Following this first strand reaction, double-stranded cDNA
 was blunt-ended, ligated to NotI adapters, digested with EcoRI
 , size-selected, and cloned into the NotI and EcoRI
 compatible sites of a custom modified MCS of the
 pBluescript (KS+) vector. The library was normalized in 2
 rounds using conditions adapted from Soares et al., PNAS
 (1994) 91: 9228-9232 and Bonaldo et al., Genome Research 6
 (1996) 791, except that a significantly longer
 reannealing hybridization was used."

BASE COUNT 194 a 230 c 231 g 138 t

ORIGIN

Alignment Scores:
 Pred. No.: 136e-95 Length: 793
 Score: 929.00 Matches: 172
 Percent Similarity: 91.43% Conservative: 20
 Best Local Similarity: 81.90% Mismatches: 18
 Query Match: 51.44% Indels: 0
 DB: 13 Gaps: 0

US-10-017-084A-523 (1-344) x BU365385 (1-793)

QY 124 LysThrSerArgValHisLeuIleValGlnValSerProLysIleValGluIleSerSer 143
 DB 1 AAGACATCTCGCGTGCACCTCATTTGTCAAAGTCTGCCGAAATTTACCGAGATCTCTCT 60
 QY 144 AspIleSerIleAsnGluGlyAsnAsnIleSerLeuThrCysIleAlaThrGlyArgPro 163
 DB 61 GACATCTCCATCAATGAAGTGGCAAGTCAGCTCAGCTCAGTCATAGCCAGGCGAGCCA 120
 QY 164 GluProThrValThrTrpArgHisIleSerProLysAlaValGlyPheValSerGluAsp 183
 DB 121 GACCCCAACATCACCTCGAGACACATCTCGCCCAAGCTGTGGGCTTCATCAGCAGGAC 180
 QY 184 GluThrLeuGluIleGlnGlyIleThrArgGluGlnSerGlyAspThrGlyCysSerAla 203
 DB 181 GAGTACCTGGAGATCACAGGCATCACGAGGAGCAGTCGCGGAGTACGAGTACGAGTCC 240
 QY 204 SerAsnAspValAlaAlaProValValArgValLysValThrValAsnThrProPro 223
 DB 241 TCCACGAGGTGGCGCGCTGTCTCCAGCAGTCAAAGTCACGTCACCTACCTACCCACCG 300
 QY 224 TyrIleSerGluAlaLysGlyThrGlyValProValGlyGlnLysGlyThrLeuGlnCys 243
 DB 301 TACATCTCGATCGCAAGACCCCGTGTCCCGTGGGCGAGAGGCGATCCCTGATGTGT 360
 QY 244 GluAlaSerAlaValProSerAlaGluPheGlnThrTyrLysAspAspLysArgLeuIle 263
 DB 361 GAAGCCTCCGCTGTGCCCTCGCTGACTTCCAGTGGTACAAAGACGACAGCGGCTGGCT 420
 QY 264 GluGlyLysGlyValLysValGluAsnArgProPheLeuSerLysLeuIlePhePhe 283
 DB 421 GAAGGACAGAAAGGCTGAAGGTGAAACAAAGAGGCTTCTTCTCCGACTGACTTTCTTC 480

```

QY 284 AsnValSerGluHisAspTyrGlyAsnTyrThrCysValAlaSerAsnLysLeuGlyHis 303
DB 481 AAGCTCTCCGACGAGTACGCACTACCTGGTGGCTCCACCCAGCTAGGAAC 540
QY 304 ThrAsnAlaSerIleMetLeuPheGlyProGlyAlaValSerGluValSerAsnGlyThr 323
DB 541 ACCAACCCAGCATGATCTTTATGGCCCGGCGAGTGCACGATGGCAACACGCGTGG 600
QY 324 SerArgAlaGlyCysValTrpLeuLeu 333
DB 601 TGGCGCGGAGGAGCTGTGCTGCTGCTG 630

RESULT 14
BE263639
LOCUS 601192064F1 NIH_MGC_7 Homo sapiens cDNA clone IMAGE:3536127 5'
DEFINITION mRNA sequence.
ACCESSION BE263639
VERSION 1
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
1 (bases 1 to 545)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cyabps-remail.nih.gov
Plate: LICM217 row: P column: 16
High quality sequence stop: 545.
Location/Qualifiers
1..545
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:3536127"
/tissue_type="small cell carcinoma"
/cell_line="MGC3"
/clone_lib="DH10B (phage-resistant)"
/notes="organ: lung; Vector: pORF7; Site:1; XhoI; Site:2;
EcoRI; cDNA made by oligo-dT priming. Directionally
cloned into EcoRI/XhoI sites using the following 5'
adaptor: GGCACGAG(G). Size-selected >500bp for average
insert size 1.8kb. Library constructed by Ling Hong in
the laboratory of Gerald M. Rubin (University of
California, Berkeley) using ZAP-cDNA synthesis kit
(Stratagene) and Superscript II RT (Life Technologies)."
```

BASE COUNT

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ORIGIN 162 a 134 c 144 g 105 t
Alignment Scores:
Pred. No.: 1.71e-95 Length: 545
Score: 926.00 Matches: 180
Percent Similarity: 98.90% Conservative: 0
Best Local Similarity: 98.90% Mismatches: 1
Query Match: 51.27% Indels: 1
DB: 10 Gaps: 0
US-10-017-084A-523 (1-344) x BE263639 (1-545)
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```

QY 91 LeuSerAsnThrGlnThrGlnTyrSerIleGluLeuGlnAsnValAspValTyrAspGlu 110
DB 1 CTGAGAACACCAACCAACGACGATCGATCGATCCAGCTGGATGTATGACGAG 60
QY 111 GlyProTyrThrCysSerValGlnThrAspAsnHisProLysThrSerArgValHisLeu 130
DB 61 GGCCCTTACACCTGCTCGTCAGACAGACCAACCCAAAGACCTCTAGGTCACCTC 120
QY 131 IleValGlnValSerProLysIleValGluIleSerSerAspIleSerIleAsnGluGly 150
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DB 121 ATTGTCCAGTATCTCCCAAAATTTGTAGAGATTCTTTCAGATATCTCATTATGAGGG 180
QY 151 AsnAsnIleSerLeuThrCysIleAlaThrGlyArgProGluProThrValThrTrpArg 170
DB 181 ACAATATTAGCTCTCACCTGCATAGCACTGGTAGACAGCCCTAGCGTTACTTGAGA 240
QY 171 HisIleSerProLysAlaValGlyPheValSerGluAspGluTyrLeuGluIleGlnGly 190
DB 241 CACATCTCTCCCAAGCGTTGGCTTTGTAGTGAAGACGAATACTTGGAAATTCAGGGC 300
QY 191 IleThrArgGluGlnSerGlyAspTyrGluCysSerAlaSerAsnAspValAlaAlaPro 210
DB 301 ATCACCAGGAGCAGTACAGGGAGTACGAGTGCAGTGCCTCCAAATGACGTGGCGGCC 360
QY 211 ValValArgValLysValThrValAsnTyrProTyrTyrIleSerGluAlaLysGly 230
DB 361 GTGTACGAGAGTAAAGTCCAGTGAATATCCACCATACATTTTCAGAAGCCAAAGGT 420
QY 231 ThrGlyValProValGlnLysGlyThrLeuGlnCysGluAlaSerAlaValProSer 250
DB 421 ACAGGTGTCCCGCTGGGACAAAAGGGGACACTGCAGTGTGAAGCCTCAGCAGTCCCTCA 480
QY 251 AlaGluPheGlnTyrTyrLysAspAspLysArgLeuIleGluGlyLys-LysGlyVally 270
DB 481 GCAGAAATTCAGTGTGATACAGGATGACAAAGACTGATTGAAGGAACAGAAAGGGGTGAA 540
QY 270 sval 271
DB 541 AGTG 544

RESULT 15
BE261691
LOCUS 602373361F1 NIH_MGC_94 Mus musculus cDNA clone IMAGE:4480983 5'
DEFINITION mRNA sequence.
ACCESSION BE261691
VERSION 1
KEYWORDS EST.
SOURCE Mus musculus (house mouse)
ORGANISM Mus musculus
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
1 (bases 1 to 979)
NIH-MGC http://mgi.nci.nih.gov/
National Institutes of Health, Mammalian Gene Collection (MGC)
Unpublished
Contact: Robert Strausberg, Ph.D.
Email: cyabps-remail.nih.gov
Tissue Procurement: The Cepko Laboratory
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLAM10315 row: i column: 16
High quality sequence stop: 715.
Location/Qualifiers
1..979
/organism="Mus musculus"
/mol_type="mRNA"
/db_xref="taxon:10090"
/clone="IMAGE:4480983"
/tissue_type="retina"
/lab_host="DH10B (phage-resistant)"
/clone_lib="NIH_MGC_94"
/notes="Organ: eye; Vector: pCMV-Sport6; Site:1: NotI;
Site:2: SalI; Cloned unidirectionally; oligo-dT primed.
Average insert size 3.3 kb. Library enriched for
full-length clones and constructed by Life Technologies.
Note: this is a NIH_MGC library."
```

BASE COUNT

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231 a 261 c 289 g 198 t
```


ORIGIN

Alignment Scores:

[illegible]

US-10-017-084A-523 (1-344) x BG261691 (1-979)

QY		.12	IleSerTrpAlaIlePheThrGlyLeuAlaAlaLeuCysLeuPhe-----GlnGly	28
DB	:	67	CTGCCCTCGAAGTCGGCTCGTGGTGCTCTCAAGCGCTGCTATTCTTTGTACCCACAGA	126
QY	:	29	ValProValArgSerGlyAspAlaThrPheProLySAlaMetAspAsnValThrValArg	48
DB	:	127	GTGCCCGGTGCTAGCGGAGATGCCACCTTTCCCAAAGCTATGGACAACGTGACGGCTCAG	186
QY	:	49	GlnGlyGluSerAlaThrLeuArgCysThrIleAspAsnArgValThrArgValAlaTrp	68
DB	:	187	CAGGGGGAGAGCGCACCCCTCAGGTGCACAANTTGAAACCGAGTACC CGGGTGGCGTGG	246
QY	:	69	LeuAsnArgSerThrIleLeuTyrAlaGlyAsnAspLysTpCysLeuAspProArgVal	88
DB	:	247	CTAAACCGCATACCATCTCTATGCTGGAAATGACAAAGTGGCTGCCTAGATCCTCGTGTG	306
QY	:	89	ValLeuLeuSerAsnThrGlnThrGlnTySerIleGluIleGlnAsnValAspValTy	108
DB	:	307	GTCCCTCTCAGTAACACCCAGACCCAGTACAGCNTTGAGATCCAGATATGGTGATGTATC	366
QY	:	109	AspGluGlyProTyThrCysSerValGlnThrAspAsnHisProLySThrSerArgVal	128
DB	:	367	GATGAGGGCCCCATTACTCTGCTCGTACAGACAGAACCCACCTTAGACCTCCAGGCTC	425
QY	:	129	HisLeuIleValGlnValSerProLySIlleValGluIleSerSerAspIleSerIleAsn	148
DB	:	426	CACCTCATTTGAAGAATATCCCAAATTTGATAGATTTCTCAGATAATCTCCATTAAT	485
QY	:	149	GluGlyAsnAsnIleSerLeuthrCysIleAlaThrGlyArgProGluProThrValThr	168
DB	:	486	GAAGGGAAACAACATCAGCCTCCTTCATAGCCACAGGTAGACCGCGAGCCTACAGTAAC	545
QY	:	169	TrpArgHisIleSerProLySAlaValGlyPheValSerGluAspGluTyLeuGluIle	188
DB	:	546	TGAGAGACATATTTCCCAAGGCCGTGGCTTTGTGAGTGAGGATGATTCCTCGGAGATC	605
QY	:	189	GlnGlyIleThrArgGluGlnSerGlyAspTyrglyCysSerAlaSerAsnAspValAla	208
DB	:	506	CAGGACATCACTCGGSAACATCAGGCGAGTACGAGTCAGCGCTC--AACGACGTGGCG	663
QY	:	209	AlaProValValArgArgValLysValThrValAsnTyProProTyIleSerGluAla	228
DB	:	664	G--ACCGTGGTACGAAGAGTGAAGTCCC--GTGAAGTATFCA--CCATACAT-TCTCAGAG	718
QY	:	229	LysGlyThrGlyValProGlyGlnLysGlyThrLeuGlnCysGluAlaSerAlaVal	248
DB	:	719	TTAGSGCCCGGTGTCCTCGTGGGGCAAGAGGGGCT-CTGCAGTGTGAGCTT---CGAGTC	774
QY	:	249	ProSerAlaGlu	252
DB	:	775	CCCTTCGCCGAT	786

Search completed: September 11, 2003, 05:12:23
Job time : 2518 secs

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: September 11, 2003, 03:02:48 ; Search time 39 seconds
(without alignments)
848:257 Million cell updates/sec

Title: US-10-017-084A-523
Perfect score: 1806
Sequence: 1 MKTIQPKMNSISWAFITGL.....RRAGCVLLPLLVLLHLLKF 344

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 283308 seqs, 96168682 residues

Total number of hits satisfying chosen parameters: 283308

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database : PIR_76:*

1: piri:*

2: piri:*

3: piri:*

4: piri:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match %	Length	ID	Description
1	1639.5	90.8	344	I56551	neurotrophin - rat
2	1285.5	71.2	338	JC1238	opioid-binding pro
3	1268	70.2	345	JG4025	opioid-binding pro
4	1266	70.1	345	S03199	opioid-binding pro
5	1259	69.7	345	JC1239	opioid-binding pro
6	935.5	51.9	338	JC5519	50k glycoprotein p
7	931.5	51.6	338	JG4776	limbic-system-asso
8	297.5	16.5	333	A31923	amalgam protein pr
9	287.5	15.7	725	IJMSNG	neural cell adhesi
10	283.5	15.7	725	IJMSNL	neural cell adhesi
11	279.5	15.5	725	JEC099	neural cell adhesi
12	279.5	15.5	1091	IJCHNL	neural cell adhesi
13	278.5	15.4	4162	T42633	connectin/titin -
14	277.5	15.4	858	IJRTNC	neural cell adhesi
15	277.5	15.4	1088	IJXLNL	neural cell adhesi
16	276	15.3	761	IJHUNG	neural cell adhesi
17	275.5	15.3	853	IJBONC	neural cell adhesi
18	273.5	15.1	725	JEC100	neural cell adhesi
19	272.5	15.0	1323	PN0568	connectin 3B, chi
20	270.5	15.0	1092	JN0635	neural cell adhesi
21	261.5	14.5	1091	S01998	contactin precurs
22	259	14.3	7962	T38346	elastic titin - hu
23	254.5	14.1	5175	T20952	hypothetical prote
24	249.5	13.8	1040	T43250	hemiscientin precu
25	248.5	13.6	1018	A49356	transient axonal g
26	246.5	13.5	1021	A54744	contactin 1 precu
27	243.5	13.5	1021	A57112	contactin precurs
28	243.5	13.5	1036	S22383	axonin 1 precursor
29	241.5	13.4	1018	JC4211	neural adhesion pr

30	241.5	13.4	1020	2	S05944	neural cell surf
31	240	13.3	3707	2	S18252	heparan sulfate pr
32	235	13.0	662	2	T16525	hypothetical prote
33	234.5	13.0	1040	2	A34695	axonal glycoprotei
34	232.5	12.9	2783	2	T34416	hypothetical prote
35	230.5	12.8	868	2	A46512	CD22 homolog/B lym
36	227.5	12.6	1051	2	A39712	kinase-like protei
37	226	12.5	6642	2	T29757	protein UNC-89 - C
38	225	12.5	4391	2	A38096	perlecan precursor
39	221.5	12.3	862	2	I49583	differentiation an
40	221	12.2	1896	2	T08851	Dowd Syndrome cell
41	220.5	12.2	898	2	A01114	fasciclin II precu
42	219	12.1	1091	2	A58532	glial cell membran
43	218.5	12.1	1612	2	T30805	cutti protein - mo
44	215.5	11.9	1239	1	A32579	neuroglian - fruit
45	214.5	11.9	1070	2	JC4593	protein-tyrosine k

ALIGNMENTS

RESULT 1

I56551
neurotrophin - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 26-Jul-1996 #sequence_revision 26-Jul-1996 #text_change 19-May-2000
C:Accession: I56551
R:Struyk, A.F.; Canoll, P.D.; Wolfgang, M.J.; Rosen, C.L.; D'Eustachio, P.; Salzer, J
J. Neurosci. 15, 2141-2156, 1995
A:Title: Cloning of neurotrophin defines a new subfamily of differentially expressed n
A:Reference number: I56551; MUID:95198094; PMID:7891157
A:Accession: I56551
A:Status: preliminary; translated from GB/EMBL/DBD
A:Molecule type: mRNA
A:Residues: 1-344 <RES>
A:Cross-references: EMBL:U16845; NID:g755184; PIDN:AA67445.1; PID:g755185
C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-ter

Query Match 90.8%; Score 1639.5; DB 2: Length 344;
Best Local Similarity 92.9%; Pred No. 1.4e-113;
Matches 312; Conservative 9; Mismatches 12; Indels 3; Gaps 1;

QY	12	ISWAFITGLAALCLF---	QGVPRSGDATTFFPKAMDNVTVRQGESATLRTCTIDNRTVRVAV	68
DB	9	LPWKCLVVSRLRLFLVPTGVPVRSGDATTFFPKAMDNVTVRQGESATLRTCTIDNRTVRVAV	68	
QY	69	LNRSITLYAGNDKWCCLDPRVLLSNTQVYSIEIQNVVYDEGPTCSVQTDNHPKTSRV	128	
DB	69	LNRSITLYAGNDKWCCLDPRVLLSNTQVYSIEIQNVVYDEGPTCSVQTDNHPKTSRV	128	
QY	129	HLIVQVSPKIVETSSDISINEGNNISLTCTIATGRPEPTVTVRRHISPKAVGVSEDEYLEI	188	
DB	129	HLIVQVSPKIVETSSDISINEGNNISLTCTIATGRPEPTVTVRRHISPKAVGVSEDEYLEI	188	
QY	189	QGITRQSGDYECASNDVAAPVYRVKVTNVPVYISAKGTGVPVQKGTLOCEASAV	248	
DB	189	QGITRQSGDYECASNDVAAPVYRVKVTNVPVYISAKGTGVPVQKGTLOCEASAV	248	
QY	249	PSAEFFQYKDDKRLLEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNASI	308	
DB	249	PSAEFFQYKDDKRLLEGKGVKVENRPFSLKLIFFNVSEHDYGNVTCVASKLGHNTNASI	308	
QY	309	MLFGPGAVSEVNGTSRRAGCVLLPLLVLLHLLKF	344	
DB	309	MLFGPGAVSEVNGTSRRAGCVLLPLLVLLHLLKF	344	

RESULT 2

JC1238
opioid-binding protein (Clone DUZ1) - rat
C:Species: Rattus norvegicus (Norway rat)
C:Date: 03-May-1994 #sequence_revision 03-May-1994 #text_change 19-May-2000
C:Accession: JC1238

C:Accession: JCI1239
 R:lipman, D.A.; Lee, N.M.; Loh, H.H.
 G:Ref117, 249-254, 1992
 A:Title: Opioid-binding cell adhesion molecule (OBAM)-related clones from a rat brain c
 A:Reference number: JCI238; MUID:92347701; PMID:1339369
 A:Accession: JCI1239
 A:Molecule type: mRNA
 A:Residues: 1-345 <LIP>
 A:Cross-references: GB:M88710; NID:g203247; PIDN:AAA40859.1; PID:g203248; GB:M88711; NID
 C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin
 C:Keywords: transmembrane protein

Query Match 69.7%; Score 1259; DB 2; Length 345;
 Best Local Similarity 71.2%; Pred. No. 1.7e-85;
 Matches 240; Conservative 34; Mismatches 59; Indels 4; Gaps 2;

QY 12 ISWAIFTLGLAALCLF--OGVPRVSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAM 68
 DB 9 LPWKLVVSVSLFLVPTGVPVRSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAM 68
 QY 69 LNRSTILYAGNDKCLDRVLLSNTOTQYSTEIQNDVYDEGPTCSVOTDNHPTSRV 128
 DB 69 LNRSTILYAGNDKSIDRVLIVNTPTQYSIMQNDVYDEGPTCSVOTDNHPTSRV 128
 QY 129 HLIVQSPKIVEISSDINSNGNLSITCIATGRPEPTVTRHISPK-AVGFVSEDEYLE 187
 DB 129 HLIVQSPKIMISSDITVNEISVTLLCLAIAGRPETVTRHLSVKEGQGFVSEDEYLE 188
 QY 188 IOGITREQSGDYEGSASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVQKGTLOCEASA 247
 DB 189 ISDKRDSGEYEGSASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVQKGTLOCEASA 248
 QY 248 VPSAEQWTKDKRLIEGKGVKVENRPFSLKLIFFNVEHDYNTCVASNKLGHTNAS 307
 DB 249 VMAEFQFKEDETLATGLDGVRIENKGRISTLTFNVEHDYNTCVATNKLGNINAS 308
 QY 308 IMLFPGAVSEVSGTSRRAGCVMLPLLVLLHLKLF 344
 DB 309 ILYLPGAVIDGVNSASRALACLWLSGTFPAHFYK 345

RESULT 6

JC5519

50K glycoprotein precursor - chicken

C:Species: Gallus gallus (chicken)

C:Date: 02-Sep-1997 #sequence_revision 05-Sep-1997 #text_change 17-Nov-2000

C:Accession: JC5519

R:Hancock, K.A.; Gooley, A.A.; Jeffrey, P.L.

Mol Brain Res. 44, 273-285, 1997

A:Title: AVGP50, a predominantly axonally expressed glycoprotein, is a member of the Igl
 A:Reference number: JC5519; MUID:97225899; PMID:9073169

A:Accession: JC5519

A:Molecule type: mRNA

A:Residues: 1-338 <HAN>

A:Experimental source: brain

C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-termin

C:Keywords: glycoprotein

F:1-31/Domain: signal sequence #status predicted <SIG>

F:32-338/Product: 50K glycoprotein #status predicted <MAT>

F:46-113/Domain: immunoglobulin homology <IMM1>

F:146-199/Domain: immunoglobulin homology <IMM2>

F:232-292/Domain: immunoglobulin homology <IMM3>

F:40,136,148,279,287,300,315/Binding site: carbohydrate (Asn) (covalent) #status predict

Query Match

51.9%;

Score 936.5;

DB 2;

Length 338;

Best Local Similarity

56.08;

Pred. No. 1e-61;

Matches 192;

Conservative 55;

Mismatches 83;

Indels 5;

Gaps 4;

QY 79 NDKWCLDRPVLLSNTOTQYSTEIQNDVYDEGPTCSVOTDNHPTSRVHLIVQVSPKI 138
 DB 75 EDKWSLDRPVELEKRSPLKSLRIOKVDVYDEGPTCSVOTDNHPTSRVHLIVQVSPKI 134
 QY 139 VEISSDISINEGNNLSITCIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGITREQSGD 198
 DB 135 SNISSDITVNEGNSVTLVCMANGRPETVTRHILFTCKEFGEEYELIIGITRQSGK 194
 QY 199 YECASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVQKGTLOCEASAVPSAEFQWYKD 258
 DB 195 YECCAANEVASADYKQVTVNYPPIYSEKNEATGQALLCEASAVPTDFEFWYKD 254
 QY 259 DKRLIEGKGVKVENRPFSLKLIFFNVEHDYNTCVASNKLGHTNASIMLFGPGAVSE 318
 DB 255 DTR-INSANGLEIKSTGSQSLVMVNTVEHYGNTVCAANKLGVNTASLYLRPG-TGR 312
 QY 319 VSGTSRRAGCVMLPLLVLLHLK 343
 DB 313 VDNQSVSLAVPLWLLAASLLCLLSK 337

RESULT 7

JC4776

Limbic-system-associated membrane protein precursor - human

C:Species: Homo sapiens (man)

C:Date: 10-May-1996 #sequence_revision 16-Aug-1996 #text_change 19-May-2000

C:Accession: JC4776

R:Pimenta, A.F.; Fischer, I.; Levitt, P.

Gene 170, 189-195, 1996

A:Title: cDNA cloning and structural analysis of the human limbic-system-associated m
 A:Reference number: JC4776; MUID:96235133; PMID:8666243

A:Accession: JC4776

A:Molecule type: mRNA

A:Residues: 1-338 <PIN>

A:Cross-references: GB:U41901; NID:g1276898; PIDN:AAC50569.1; PID:g1276899

A:Experimental source: brain

C:Comment: This is a neuronal surface glycoprotein distributed in cortical and subcon

C:Genetics:

A:Gene: lamp

C:Superfamily: carcinoembryonic antigen; carcinoembryonic antigen precursor amino-ter

C:Keywords: brain; glycoprotein; membrane protein; phosphoprotein

F:1-7/Domain: signal sequence #status predicted <SIG>

F:333-338/Region: hydrophobic

F:40,66,136,148,279,287,300,315/Binding site: carbohydrate (Asn) (covalent) #status p

F:42,115,142,164,171,220,231/Binding site: phosphate (Thr) (covalent) #status predict

F:195,192,204,236,310/Binding site: phosphate (Ser) (covalent) #status predicted

Query Match

51.6%;

Score 931.5;

DB 2;

Length 338;

Best Local Similarity

55.4%;

Pred. No. 2.4e-61;

Matches 180;

Conservative 60;

Mismatches 80;

Indels 5;

Gaps 4;

QY 20 LAALCLF-OGVPRVSGDATFPKAMDNVTVROGESATLRCTIDNRVTRVAMNRSTILYAG 78
 DB 17 LRLCLLPTGLPVRSVD--FNRCTDNITVROGDTALLRCLVLEKNSKVAWLNRSIIIFAG 74QY 79 NDKWCLDRPVLLSNTOTQYSTEIQNDVYDEGPTCSVOTDNHPTSRVHLIVQVSPKI 138
 DB 75 HDKNSLDRPVELEKRSPLKSLRIOKVDVYDEGPTCSVOTDNHPTSRVHLIVQVSPKI 134QY 139 VEISSDISINEGNNLSITCIATGRPEPTVTRHISPKAVGFVSEDEYLEIOGITREQSGD 198
 DB 135 SNISSDITVNEGNSVTLVCMANGRPETVTRHILFTCKEFGEEYELIIGITRQSGK 194QY 199 YECASNDVAAPVRRVKVTVNYPPIYSEAKGTGVPVQKGTLOCEASAVPSAEFQWYKD 258
 DB 195 YECCAANEVASADYKQVTVNYPPIYSEKNEATGQALLCEASAVPAPDFEWYKD 254QY 259 DKRLIEGKGVKVENRPFSLKLIFFNVEHDYNTCVASNKLGHTNASIMLFGPGAVSE 318
 DB 255 DTR-INSANGLEIKSTGSQSLVMVNTVEHYGNTVCAANKLGVNTASLYLRPGSVRG 313

QY 319 VSGTSRRAGCVMLPLLVLLHLK 343

Db 314 I-NGSISLAVPLWLLAASLLCLLSK 337

RESULT 8

A31923

analgam protein precursor - fruit fly (Drosophila melanogaster)

C:Species: Drosophila melanogaster

C>Date: 18-Oct-1989 #sequence_revision 18-Oct-1989 #text_change 21-Jul-2000

R:Seeger, M.A.; Haffley, L.; Kaufman, T.C.

Cell 55; 589-600, 1988

A:Title: Characterization of amalgam: a member of the immunoglobulin superfamily from Drosophila

A:Reference number: A31923; MUID:89028670; PMID:3141062

A:Accession: A31923

A:Molecule type: DNA

A:Residues: 1-333 <SEE>

A:Cross-references: GB:M23561; NID:g156920; PIDN:AAA28367.1; PID:g156921

A:Gene: FlyBase:Ana

A:Cross-references: FlyBase:FBgn0000071

Query Match 16.5%; Score 297.5; DB 2; Length 333;

Best Local Similarity 29.7%; Pred. No. 1.4e-14;

Matches 87; Conservative 43; Mismatches 136; Indels 27; Gaps 11;

QY 44 NTVVROGESATLRCTIDN-RVTRVAVLNR-----STLVAGNDKWCLODPR--VVLLSN 93

DB 33 DVASVGDSEVENCTVEEVGQLSVNAKRPESDTSVLSNRNLSLPDKRYNVTVTEG 92

QY 94 TQTO---YSIEIQNDVDEGPTCYQTDNHPK-TSRVHLIVQVSPKIVE-TSSDISIN 148

DB 93 PKTSALTYFRIONIEVSDMGPIECQVLVSATEKVKLSLQIKTPPVIAENPKSTLVT 152

QY 149 EGNISUTCIATGRPEPTVWRH-----ISPKAVGVFVSEDEYLEIQITRQSGDYPCAS 204

DB 153 EQONLEUTCHANGFKPTISWAREHNAVMP-AGHLLAETPLTRISVHRMDRGYICIAQ 211

QY 205 NDVAAPVRRVRYVNYPPYIS-EAKGTGVPVQKGTQCEASAVPSAEFOWKDKRLI 263

DB 212 NGEQOPDKLIRVEFRPQIAVQRPKIAQVSHSAELCSVQGYPAFTVVMKNGVPL- 270

QY 254 EGKKGKGVENR-----PFLSKLIFFNVSEHDYGNVTCVASNKLIGHTNASIMLF 311

DB 27: QSSRHEVANTASSGTTTSLVRIDSVGEEDFGDYCYCNATNKLGHADARLHLF 323

RESULT 9

IJMSNG

neural cell adhesion molecule 1 precursor, GPI-anchored splice form - mouse

N:Alternate names: NCAM-120

C:Species: Mus musculus. (house mouse)

C>Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 31-Dec-2000

R:Barthels, D.; Santoni, M.J.; Wille, W.; Ruppert, C.; Chaix, J.C.; Hirsch, M.R.; Fontec

EMBO J. 6, 907-914, 1987

A:Title: Isolation and nucleotide sequence of mouse NCAM cDNA that codes for a Mr 79,000

A:Reference number: A29673; MUID:87246524; PMID:3595563

A:Accession: A29673

A:Molecule type: mRNA

A:Residues: 1-725 <BAR>

A:Cross-references: EMBL:Y00051; NID:g53342; PIDN:CAA68263.1; PID:g53343

R:Barbes, J.A.; Chaix, J.C.; Steinmetz, M.; Goridis, C.

EMBO J. 7, 625-632, 1988

A:Title: Differential splicing and alternative polyadenylation generates distinct NCAM t

A:Reference number: S00382; MUID:80283628; PMID:3396334

A:Accession: S00382

A:Molecule type: DNA

A:Residues: 542-656, 'D', 658-725 <BA2>

A:Cross-references: EMBL:X07195

R:Rougon, G.; Marshak, D.R.

J. Biol. Chem. 261, 3396-3401, 1986

A:Title: Structural and immunological characterization of the amino-terminal domain of m

A:Reference number: A44290; MUID:86140120; PMID:3512556

A:Accession: A44290

A:Molecule type: protein

A:Residues: 20-36 <ROU>

C:Comment: NCAM mediates cell-cell adhesion via homophilic binding with another NCAM

C:Comment: Several forms of NCAM are produced by alternative splicing. See also PIR:I

C:Genetics:

A:Gene: NCAM

A:Map position: 9

A:Introns: 701/1

C:Superfamily: neural cell adhesion molecule; fibronectin type III repeat homology; i

C:Keywords: alternative splicing; cell adhesion; duplication; heparin binding; membra

F:1-19/Domain: signal sequence status predicted <SIG>

F:132-151/Domain: immunoglobulin homology <IMM1>

F:152-156/Region: heparin binding #status predicted

F:161-165/Region: heparin binding #status predicted

F:228-290/Domain: immunoglobulin homology <IMM3>

F:263-272/Region: NCAM binding #status predicted

F:323-388/Domain: immunoglobulin homology <IMM4>

F:420-482/Domain: immunoglobulin homology <IMM5>

F:519-596/Domain: fibronectin type III repeat homology <FN3A>

F:625-685/Domain: fibronectin type III repeat homology <FN3B>

F:41-96,139-189,235-288,330-386,427-480/Disulfide bonds: #status predicted

F:222,316,348,424,450,479/Binding site: carbohydrate (Asn) #status predicted

Query Match 15.7%; Score 283.5; DB 1; Length 725;

Best Local Similarity 25.8%; Pred. No. 4.1e-13;

Matches 75; Conservative 45; Mismatches 130; Indels 41; Gaps 7;

QY 44 NTVVROGESATLRCTIDN-RVTRVAVLNRSTILVAGNDKWCLODPRV-----LLSNQ 95

DB 222 NRVANLQGSVILVCDAG-----PPEPTM-----SWTKDGEPIENEEDERSRVS 268

QY 96 TQYSIEIQNDVDEGPTCYQTDNHPKTSRVHLIVQVSPKIVEISDISINEGNISL 155

DB 269 DSSEVTRINVDKNDSEAEVTCIAENKAGEQDASHLKVFAPKITYVNTQFAMELEQVTL 328

QY 156 TCATGRPEPTVWRH-----HISPKAVGVFVSEDEYLEIQITRQSGDYE 200

DB 329 TCASAGDPISPTITWTRTSRNTSSSEEDLDGHVVRSHARVSS---LTKSIQVRDAGEYM 385

QY 201 CSASNDVAAPVRRVRYVNYPPYIS-EAKGTGVPVQKGTQCEASAVPSAEFOWKDK 600

DB 386 CTASNTIGOD--SQSIDLEFQYAPKLOGPVAVVTWEGNQVNTICEVFPATISWFRDQ 444

QY 261 RLIEGK-KGVKVENRPFSLKLIFFNVSEHDYGNVTCVASNKLIGHTNASIML 310

DB 445 LLPSSNYSNIIKTYNTPSASYLEVTPDSEDNFGNVCNAVNRIGQESLEFIL 495

RESULT 10

IJMSNL

neural cell adhesion molecule 1 precursor, long domain splice form - mouse

N:Alternate names: NCAM-180

C:Species: Mus musculus. (house mouse)

C>Date: 31-Mar-1993 #sequence_revision 31-Mar-1993 #text_change 31-Dec-2000

C:Accession: A29673; S00384; A28281; A44290; S00383

R:Barthels, D.; Santoni, M.J.; Wille, W.; Ruppert, C.; Chaix, J.C.; Hirsch, M.R.; Fon

EMBO J. 6, 907-914, 1987

A:Title: Isolation and nucleotide sequence of mouse NCAM cDNA that codes for a Mr 79,

A:Reference number: A29673; MUID:87246524; PMID:3595563

A:Accession: A29673

A:Molecule type: mRNA

A:Residues: 1-548, 'T', 550-571, 'T', 573-574, 'D', 576-588, 'MPS', 593, 'S', 595-599, 'P', 601,

A:Cross-references: EMBL:Y00051; NID:g53342; PIDN:CAA68263.1; PID:g53343

R:Santoni, M.J.; Barthels, D.; Barbas, J.A.; Hirsch, M.R.; Steinmetz, M.; Goridis, C.

Nucleic Acids Res 15, 8621-8641, 1987

A:Title: Analysis of cDNA clones that code for the transmembrane forms of the mouse n

A:Reference number: S00844; MUID:88067687; PMID:3684567

A:Accession: S00844

A:Molecule type: mRNA

A:Residues: 529-809,1077-1115 <SANS>

